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Excelsior Mining Corporation
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Attention: Ms. Rebecca Sawyer
Vice President, Sustainability

Subject: Baseline Soil Sampling Report
Gunnison Copper Project, Cochise County, Arizona

Dear Ms. Sawyer:

In accordance with Section 4.2 of the document entitled "Sampling and Analysis Plan" dated 19 March 2015 (SAP), Haley & Aldrich, Inc. (Haley & Aldrich) has prepared this baseline soil sampling report for Excelsior Mining Corporation (Excelsior) for the Gunnison Copper Project located in Cochise County, Arizona (Figure 1). This report was prepared to establish baseline concentrations of metals and organic compounds in shallow soils prior to construction of mining facilities and commencement of mining operations.

Planned operations for the Gunnison Copper Project will occur in two phases. Phase I includes development of the northern end of the North Star deposit, while Phase II includes the southern end of the North Star deposit. This report focuses on the planned Phase I mineral resource and the preliminary processing area (Site, Figure 1).

Currently, the Site is undeveloped and used primarily for ranching, with no direct mining history. Regional exploration began in the 1950s. To date, there have been no known activities at the Site that have had an environmental or human impact. An extensive Site exploration drilling project, with more than 90 exploration borings drilled, was completed during the 1970s. Exploration activities slowed during the 1990s, with a limited number of exploration borings drilled. Biological, cultural, and geophysical surveys were completed for the Site in 2010. The most recent exploration activities began in 2011 by Excelsior and are currently ongoing.

To establish baseline conditions in shallow soils, a total of 32 soil samples were collected from 15 locations throughout the Site (Figure 2). Impacted soil was not anticipated; therefore, all sample locations but one were selected randomly. The location of the non-random soil boring (ESB-01) was selected to sample stained soil adjacent to core hole DC-9 resulting from core hole development activities performed in January 2015. Water from DC-9 was air lifted to the surface in order to develop the core hole location as a water level monitoring point and was noted to have a moderate hydrocarbon odor. The development water was discharged to the surface, resulting in minor surface staining.

Investigation Activities

The investigation activities conducted during background soil characterization activities are described below.

PRE-FIELD ACTIVITIES

Prior to advancing the soil borings, Haley & Aldrich contacted Arizona 811 to locate subsurface utilities. Field personnel followed the Health and Safety Plan (HASP) developed for the Site field work (Haley & Aldrich, 2014). The field work was performed in Level D personal protective equipment (PPE), as defined by the Occupational Safety and Health Administration requirements detailed in Title 29 Code of Federal Regulations § 1910.120.

SOIL SAMPLING

On 3 March 2015, Haley & Aldrich advanced a total of 15 soil borings and collected samples from pre-selected locations across the Site. Soil borings were advanced using a clean, decontaminated hand auger to a maximum depth of 3 feet below ground surface (bgs). At each sample location, soil samples were collected from the top 0 to 6 inches of material and at 3 feet bgs, unless refusal was encountered prior to reaching 3 feet bgs.

Surface soil samples were collected by first scraping and exposing fresh soil from the sample location. Immediately after exposing fresh soil, soil samples to be analyzed for volatile organic compounds (VOCs) were collected using a TerraCore® sampler by pushing it into the soil at the desired sampling depth, and retrieving and depositing approximately 10 grams of soil sample into a 40-milliliter glass bottle containing methanol. Soil samples for all other analyses were collected in a re-sealable plastic bag using a stainless steel trowel, and homogenized before being placed in the appropriate laboratory supplied containers.

After collection of the surface soil sample, a soil boring was advanced using a hand auger. Upon reaching the total depth of 3 feet bgs, or refusal, the hand auger was withdrawn from the borehole and soil samples were collected directly from the hand auger bucket. An aliquot of soil was collected from the bottom of the hand auger bucket using a TerraCore sampler by pushing it into the freshly retrieved soil from the desired sampling depth, and retrieving and depositing approximately 10 grams of soil sample into a 40-milliliter glass bottle containing methanol. Soil samples for all other analyses were placed in appropriate laboratory supplied glass jars.

Soil cuttings and soil samples were screened for ionizable organic compounds in the field using a calibrated photoionization detector (PID) equipped with a 10.6 electron Volt (eV) lamp. Excavated soil did not have staining, with the exception of minor surface staining in the vicinity of soil boring ESB-01. The PID responses to the stained surface soil was 0.2 parts per million (ppm). Recorded PID responses from all excavated soil ranged from 0 to 0.4 ppm. All recovered materials were described using the Unified Soil Classification System (USCS). Lithology characteristics, PID responses to screened soils and ambient air, and any visible or olfactory evidence of impacts with respect to the recovered soils were recorded in the field notes.

After collection of each sample, non-dedicated sampling equipment (trowel and hand auger) was decontaminated using a brush and a solution of Liqui-Nox® and distilled water. The equipment was then rinsed twice with distilled water. Following collection of the final soil sample, the equipment was decontaminated once more and all rinsate solutions were poured onto the surface and allowed to evaporate. Used PPE and sampling equipment was containerized and disposed of off Site as municipal solid waste.

Refusal was encountered in six boreholes, at depths ranging from 1 to 2.5 feet bgs. When refusal was encountered, the hand auger was withdrawn from the borehole and a second boring was advanced in close proximity to the original borehole. A minimum of two borings were advanced to refusal before the soil sample was collected. A total of seven borings were advanced at location ESB-08. Each boring encountered cobbles at 1.5 feet bgs, preventing the collection of a soil sample at depth.

The samples were placed in a cooler with ice and transported to an Arizona-licensed laboratory for analysis. As required by Section 2.4 of the SAP, each sample was submitted for analysis of VOCs using United States Environmental Protection Agency (USEPA) Test Method 8260B, polycyclic aromatic hydrocarbons (PAHs) using USEPA Test Method 8270D, 13 Priority Pollutant (PP) metals (antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, thallium, and zinc) using USEPA Test Methods 6010B/7471A, and toxicity characteristic leaching procedure (TCLP) for 13 PP metals with extraction using USEPA Test Method 1311 and analysis using USEPA Test Method 6010B/7471A.

Tables I through III present a summary of the detected compounds in the tested soil samples. The laboratory analytical results are provided in Appendix A.

QUALITY ASSURANCE/QUALITY CONTROL

As part of the soil sampling program, Haley & Aldrich collected four quality assurance/quality control samples: three blind field duplicate samples to assess laboratory precision and one trip blank sample to assess potential contamination during transport.

- **Blind Field Duplicate Samples** – samples ESB-16-0-030315, ESB-17-3-030315, and ESB-18-0-030315 were the duplicates of primary samples ESB-14-0-030315, ESB-07-3-030315, and ESB-01-0-030315, respectively. Blind field duplicate samples were analyzed using the same tests as those for the primary samples.
- **Trip Blank Sample** – one trip blank sample (vials containing water filled at the laboratory) was sent in the cooler with the samples for VOC analysis collected on 3 March 2015.

The analytical results of the quality assurance/quality control samples are documented in Tables I through III, and the laboratory reports are provided in Appendix A.

Evaluation of Analytical Results

The analytical results for PAHs and 13 PP metals from soil samples collected at the Site were compared to Arizona Department of Environmental Quality (ADEQ) Soil Remediation Levels (SRLs) and minimum Groundwater Protection Standards (GPLs), shown in Tables I and II. The analytical results for TCLP 13 PP metals are shown in Table III and were not compared to any regulatory threshold. Laboratory analytical reports are provided in Appendix A.

VOCs were not detected above their laboratory minimum reporting limits. The detected PAHs and 13 PP metals in the soil samples and their concentrations are listed in the table below.

Analyte	Result	Residential SRL	Minimum GPL
1-Methylnaphthalene	0.014 to 0.0494 mg/kg	NE	NE
2-Methylnaphthalene	0.0159 to 0.108 mg/kg	NE	NE
Naphthalene	0.0185 to 0.0204 mg/kg	56 mg/kg	NE
Phenanthrene	0.0306 mg/kg	NE	NE
Antimony	0.6 to 1.6 mg/kg	31 mg/kg	35 mg/kg
Antimony (TCLP)	0.010 to 0.016 mg/L	NA	NA
Arsenic	0.8 to 5.7 mg/kg	10 mg/kg	290 mg/kg
Arsenic (TCLP)	0.010 mg/L	NA	NA
Beryllium	0.29 to 1.23 mg/kg	150 mg/kg	23 mg/kg
Beryllium (TCLP)	0.0011 mg/L	NA	NA
Cadmium	0.07 to 0.58 mg/kg	39 mg/kg	29 mg/kg
Cadmium (TCLP)	0.0006 to 0.0068 mg/L	NA	NA
Chromium	2.21 to 11.3 mg/kg	30 mg/kg	590 mg/kg
Chromium (TCLP)	0.0022 mg/L	NA	NA
Copper	4.88 to 71.4 mg/kg	3,100 mg/kg	NE
Copper (TCLP)	0.0023 to 0.0132 mg/L	NA	NA
Lead	5.2 to 26.3 mg/kg	400 mg/kg	290 mg/kg
Lead (TCLP)	0.0043 mg/L	NA	NA
Mercury	0.007 to 0.040 mg/kg	23 mg/kg	12 mg/kg
Nickel	2.90 to 13.1 mg/kg	1,600 mg/kg	590 mg/kg
Nickel (TCLP)	0.0030 to 0.0068 mg/L	NA	NA
Selenium	5.0 mg/kg	390 mg/kg	290 mg/kg
Thallium	1.6 to 3.9 mg/kg	5.2 mg/kg	12 mg/kg
Zinc	9.5 to 596 mg/kg	23,000 mg/kg	NE
Zinc (TCLP)	0.003 to 2.94 mg/L	NA	NA

Analyte	Result	Residential SRL	Minimum GPL
<i>GPL = Groundwater Protection Level</i>			
<i>mg/kg = milligrams per kilogram</i>			
<i>mg/L = milligrams per liter</i>			
<i>NA = Not Applicable</i>			
<i>NE = Not Established</i>			
<i>SRL = Soil Remediation Level</i>			
<i>TCLP = Toxicity Characteristic Leaching Procedure</i>			

Findings

Haley & Aldrich conducted shallow soil sampling to establish baseline conditions within the planned Phase I mineral resource and the preliminary processing area boundary. The baseline soil sampling was conducted to document the extent and degree of any existing soil contaminants at the Site prior to construction of mining facilities. The detected concentrations of VOCs, PAHs, 13 PP metals, and TCLP for 13 PP metals in the collected soil samples have been recorded for future use. The detected concentrations were below their respective residential and non-residential SRLs, and minimum GPLs. The TCLP extraction method was capable of leaching metals from some of the collected soil samples. Based on the analytical results of the soil samples collected, the baseline soil sampling is complete for the planned Phase I mineral resource and preliminary processing area at the Site.

We appreciate the opportunity to provide environmental consulting services on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH, INC.



Adam Kneeling, R.G.
Senior Geologist



Pejman Eshraghi, P.E.
Project Manager

Enclosures:

- Table I – Summary of Detected Soil Analytical Results – PAHs
- Table II – Summary of Detected Soil Analytical Results – 13 PP Metals
- Table III – Summary of Detected Soil Analytical Results – TCLP 13 PP Metals
- Figure 1 – Site Vicinity Map
- Figure 2 – Background Soil Characterization Analytical Results
- Appendix A – Laboratory Analytical Reports

REFERENCES

1. Haley & Aldrich, Inc., 2014. *Site-specific Health & Safety Plan for Excelsior Mining Corporation Gunnison Copper Project, Data Collection and Analysis and Groundwater Modeling, Gunnison Copper Project, Cochise County, Arizona.* 10 October.

TABLES

TABLE I

Summary of Detected Soil Analytical Results – PAHs

Baseline Soil Sampling Report

Gunnison Copper Project

Sample Location Sample Date	ADEQ SRLs		Minimum GPL Units	ESB-09 03/03/2015	ESB-09 03/03/2015	ESB-10 03/03/2015	ESB-10 03/03/2015	ESB-11 03/03/2015	ESB-11 03/03/2015	ESB-12 03/03/2015	ESB-12 03/03/2015	ESB-13 03/03/2015	ESB-13 03/03/2015	ESB-14 ¹ 03/03/2015	ESB-14 03/03/2015	ESB-15 03/03/2015	ESB-15 03/03/2015
	R-SRL mg/kg	NR-SRL mg/kg		mg/kg	mg/kg	mg/kg											
Semi-Volatile Organic Compounds																	
1-Methylnaphthalene	NE	NE	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
2-Methylnaphthalene	NE	NE	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Acenaphthene	3,700	29,000	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Acenaphthylene	NE	NE	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Anthracene	22,000	240,000	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Benzo(a)anthracene	0.69	21	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Benzo(a)pyrene	0.069	2.1	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Benzo(b)fluoranthene	0.69	21	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Benzo(g,h,i)perylene	NE	NE	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Benzo(k)fluoranthene	6.9	210	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Chrysene	68	2,000	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Dibenz(a,h)anthracene	0.069	2.10	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Fluoranthene	2,300	22,000	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Fluorene	2,700	26,000	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Indeno(1,2,3-cd)pyrene	0.69	21	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Naphthalene	56	190	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Phenanthrene	NE	NE	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	
Pyrene	2,300	29,000	NE	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005; < 0.005	< 0.005	< 0.005	

Notes¹ - Duplicate labeled ESB-16-0-030315² - Duplicate labeled ESB-17-3-030315³ - Duplicate labeled ESB-18-0-030315**Bold** indicates exceedance of laboratory Method Detection Limit

< = not detected at the laboratory Method Detection Limit

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

NE = not established

NR-SRL = Non-Residential Soil Remediation Level

R-SRL = Residential Soil Remediation Level

TABLE II
Summary of Detected Soil Analytical Results – 13 PP Metals
Baseline Soil Sampling Report
Gunnison Copper Project

Sample Location Sample Date Sample Depth (bgs) Units	ADEQ SRLs		Minimum GPL mg/kg	ESB-01 ³ 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-01 03/03/2015 0.5 - 1 (ft) mg/kg	ESB-02 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-02 03/03/2015 2.5 - 3 (ft) mg/kg	ESB-03 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-03 03/03/2015 2.5 - 3 (ft) mg/kg	ESB-04 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-04 03/03/2015 2.5 - 3 (ft) mg/kg	ESB-05 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-05 03/03/2015 2.5 - 3 (ft) mg/kg	ESB-06 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-06 03/03/2015 1 - 1.5 (ft) mg/kg	ESB-07 03/03/2015 0 - 0.5 (ft) mg/kg	ESB-07 ² 03/03/2015 2.5 - 3 (ft) mg/kg
	R-SRL mg/kg	NR-SRL mg/kg															
Inorganic Compounds																	
Antimony	31	410	35	1.1; <0.6	0.7	0.6	0.9	1.6	1.1	1.1	< 0.6	1.1	< 0.6	< 0.6	< 0.6	< 0.6; < 0.6	
Arsenic	10	10	290	< 0.8; 1.0	0.8	1.0	1.2	< 0.9	1.1	0.9	1.4	2.1	1.0	2.1	2.0	0.9 ; < 0.9	
Beryllium	150	1,900	23	0.46; 0.46	0.46	0.57	0.47	0.55	0.76	0.62	0.69	0.63	0.31	0.42	0.29	0.35; 0.44	
Cadmium	39	510	29	0.2; 0.17	0.08	0.18	0.12	0.12	0.21	0.25	0.58	0.13	< 0.07	0.17	0.11	0.08 ; < 0.08	
Chromium ⁴	120,000	1,000,000	590	7.71; 7.58	7.16	5.65	4.43	6.93	9.32	8.61	7.16	6.72	2.21	5.19	3.71	4.24; 4.85; 5.43	
Copper	3,100	41,000	NE	33.1; 32.9	14.4	21.9	14.4	29.9	34.7	27.8	24.4	17.6	4.88	71.4	20.8	9.70 ; 6.42; 6.60	
Lead	400	800	290	8.2; 8.6	7.2	9.9	8.5	9.8	14.5	26.3	12.8	13.3	5.6	9.5	5.2	7.1 ; 8.5; 7.5	
Mercury	23	310	12	< 0.006; < 0.006	0.007	< 0.006	< 0.006	0.008	< 0.006	0.007	0.009	0.009	< 0.006	0.009	0.013	< 0.006; < 0.006	
Nickel	1,600	20,000	590	5.59; 5.93	5.41	6.90	4.85	8.51	13.1	6.45	7.15	6.62	2.90	4.30	3.76	3.59 ; 4.33; 4.81	
Selenium	390	5,100	290	< 1.6; < 1.6	< 1.6	< 1.6	< 1.6	< 1.7	< 1.6	< 1.7	< 1.7	< 1.7	5.0	< 1.6	< 1.6	< 1.8; < 1.8	
Silver	390	5,100	NE	< 0.17; < 0.17	< 0.17	< 0.17	< 0.17	< 0.19	< 0.17	< 0.18	< 0.18	< 0.18	< 0.17	< 0.17	< 0.17	< 0.19; < 0.19	
Thallium	9.5	67	12	< 0.8; < 0.8	< 0.8	< 0.8	< 0.8	< 0.9	< 0.8	< 0.9	1.6	< 0.9	3.9	< 0.8	< 0.8	< 0.9; < 0.9	
Zinc	23,000	310,000	NE	23.6; 23.7	13.8	39.1	39.1	37.2	42.6	93.7	596	37.4	10.1	51.8	25.4	12.4; 14.1	

Notes

¹ - Duplicate labeled ESB-16-0-030315

² - Duplicate labeled ESB-17-3-030315

³ - Duplicate labeled ESB-18-0-030315

⁴ - The SRLs are for Chromium III.

Bold indicates exceedance of the Laboratory Method Detection Limit

< = not detected at the indicated Laboratory Method Detection Limit

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

GPL = groundwater protection level

NE = Not established

SRL = Soil Remediation Level

NR-SRL = Non-Residential Soil Remediation Level

R-SRL = Residential Soil Remediation Level

TABLE II

Summary of Detected Soil Analytical Results – 13 PP Metals

Baseline Soil Sampling Report

Gunnison Copper Project

Sample Location Sample Date Sample Depth (bgs) Units	ADEQ SRLs		Minimum GPL mg/kg	ESB-08 03/03/2015	ESB-09 03/03/2015	ESB-09 0 - 0.5 (ft) mg/kg	ESB-10 03/03/2015	ESB-10 2.5 - 3 (ft) mg/kg	ESB-11 03/03/2015	ESB-11 0 - 0.5 (ft) mg/kg	ESB-12 03/03/2015	ESB-12 2.5 - 3 (ft) mg/kg	ESB-13 03/03/2015	ESB-13 0 - 0.5 (ft) mg/kg	ESB-14 ¹ 03/03/2015	ESB-14 0 - 0.5 (ft) mg/kg	ESB-15 03/03/2015	ESB-15 2.5 - 3 (ft) mg/kg	ESB-15 0 - 0.5 (ft) mg/kg	ESB-15 1.5 - 2 (ft) mg/kg
	R-SRL mg/kg	NR-SRL mg/kg																		
Inorganic Compounds																				
Antimony	31	410	35	< 0.7	< 0.6	0.9	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6; 0.7	< 0.6	< 0.6	< 0.6		
Arsenic	10	10	290	2.6	1.7	1.9	4.7	2.3	3.2	2.7	4.1	2.6	2.8	3.8	5.7; 5.0	1.3	2.1	2.4		
Beryllium	150	1,900	23	0.52	0.48	0.81	0.90	0.61	0.50	0.49	0.58	0.29	0.48	0.77	1.23; 1.01	0.32	0.40	0.67		
Cadmium	39	510	29	< 0.08	< 0.07	< 0.08	0.27	< 0.08	0.12	< 0.07	0.11	0.17	0.07	< 0.08	0.11; <0.08	< 0.08	0.07	< 0.08		
Chromium ⁴	120,000	1,000,000	590	7.12	5.26	7.30	11.2	6.26	7.41	3.20	7.65	3.61	6.99	8.62	11.3; 9.59	2.78	6.16	8.79		
Copper	3,100	41,000	NE	12.6	25.3	10.2	49.5	10.4	14.4	20.0	15.6	7.01	13.9	14.6	22.1; 17.5	10.6	11.6	9.14		
Lead	400	800	290	8.7	9.8	14.1	19.1	7.5	11.2	12.2	12.4	5.2	10.0	15.0	17.6; 15.0	5.4	9.2	10.2		
Mercury	23	310	12	0.010	0.007	0.030	0.024	< 0.006	0.020	< 0.006	0.022	0.040	0.009	0.012	0.029; 0.026	< 0.006	0.011	0.011		
Nickel	1,600	20,000	590	5.95	4.43	7.17	7.34	6.35	5.30	5.47	5.58	3.41	5.76	8.33	8.42; 7.04	3.23	3.95	6.23		
Selenium	390	5,100	290	< 1.8	< 1.6	< 1.7	< 1.7	< 1.6	< 1.7	< 1.6	< 1.6	< 1.7	< 1.6	< 1.8	< 1.7; <1.8	< 1.8	< 1.6	< 1.7		
Silver	390	5,100	NE	< 0.19	< 0.17	< 0.18	< 0.18	< 0.18	< 0.18	< 0.17	< 0.18	< 0.18	< 0.17	< 0.19	< 0.19; <0.19	< 0.19	< 0.17	< 0.18		
Thallium	9.5	67	12	< 0.9	< 0.8	< 0.9	< 0.9	< 0.8	< 0.8	< 0.8	< 0.8	< 0.9	< 0.8	< 0.9	< 0.9; 0.9	< 0.9	< 0.8	< 0.9		
Zinc	23,000	310,000	NE	19.1	22.4	17.8	55.9	24.7	18.7	25.1	19.8	9.5	18.6	24.9	28.4; 24.0	14.6	15.6	19.1		

Notes¹ - Duplicate labeled ESB-16-0-030315² - Duplicate labeled ESB-17-3-030315³ - Duplicate labeled ESB-18-0-030315⁴ - The SRLs are for Chromium III.**Bold** indicates exceedance of the Laboratory Method Detection Limit

< = not detected at the indicated Laboratory Method Detection Limit

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

GPL = groundwater protection level

NE = Not established

SRL = Soil Remediation Level

NR-SRL = Non-Residential Soil Remediation Level

R-SRL = Residential Soil Remediation Level

TABLE III
Summary of Detected Soil Analytical Results – TCLP 13 PP Metals
Baseline Soil Sampling Report
Gunnison Copper Project

Sample Location	ESB-01 ³	ESB-01	ESB-02	ESB-02	ESB-03	ESB-03	ESB-04	ESB-04	ESB-05	ESB-05	ESB-06	ESB-06	ESB-07	ESB-07 ²
Sample Date	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015
Sample Depth (bgs)	0 - 0.5 (ft)	0.5 - 1 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	1 - 1.5 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TCLP Inorganic Compounds														
Antimony	< 0.009; < 0.009	< 0.009	0.010	0.014	< 0.009	0.011	0.011	0.016	< 0.009	0.012	0.016	0.015	< 0.009	< 0.009; < 0.009
Arsenic	< 0.010; < 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	0.010	< 0.010	< 0.010	< 0.010	< 0.010; < 0.010
Beryllium	< 0.0009; < 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009; < 0.0009
Cadmium	< 0.0006; < 0.0008	< 0.0006	0.0011	0.0008	< 0.0006	< 0.0006	0.0014	0.0068	0.0007	< 0.0006	0.0007	< 0.0006	< 0.0006	< 0.0006; < 0.0006
Chromium	< 0.0018; < 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018; < 0.0018
Copper	0.0073; 0.0074	< 0.0023	0.0034	0.0043	0.0038	0.0037	0.0047	0.0071	0.0030	< 0.0023	0.0109	0.0050	0.0069	< 0.0023; < 0.0023
Lead	< 0.0038; < 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038; < 0.0038
Mercury	< 0.00004; < 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004; < 0.00004
Nickel	< 0.0028; < 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	0.0068	< 0.0028	< 0.0028	< 0.0028	< 0.0028	0.0030	< 0.0028; < 0.0028
Selenium	< 0.015; < 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015; < 0.015
Silver	< 0.0018; < 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018; < 0.0018
Thallium	< 0.009; < 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009; < 0.009
Zinc	0.010; 0.010	< 0.003	0.007	0.024	0.005	< 0.003	0.159	2.94	0.005	< 0.003	0.005	0.003	0.015	0.003; <0.003

Notes

¹ - Duplicate labeled ESB-16-0-030315

² - Duplicate labeled ESB-17-3-030315

³ - Duplicate labeled ESB-18-0-030315

Bold indicates detections above the
Method Detection Limit

< = not detected at the indicated
reporting limit

ft bgs = feet below ground surface

mg/L = milligrams per liter

NE = not established

TCLP = Toxicity Characteristic Leaching
Procedure

TABLE III
Summary of Detected Soil Analytical Results – TCLP 13 PP Metals
Baseline Soil Sampling Report
Gunnison Copper Project

Sample Location	ESB-08	ESB-09	ESB-09	ESB-10	ESB-10	ESB-11	ESB-11	ESB-12	ESB-12	ESB-13	ESB-13	ESB-14 ¹	ESB-14	ESB-15	ESB-15
Sample Date	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015	03/03/2015
Sample Depth (bgs)	0 - 0.5 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2 - 2.5 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	1 - 1.5 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	2.5 - 3 (ft)	0 - 0.5 (ft)	1.5 - 2 (ft)
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
TCLP Inorganic Compounds															
Antimony	0.012	0.010	< 0.009	< 0.009	< 0.009	0.015	< 0.009	0.015	< 0.009	< 0.009	< 0.009; < 0.009	0.015	< 0.009	< 0.009	< 0.009
Arsenic	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010; < 0.010	< 0.010	< 0.010	< 0.010	< 0.010
Beryllium	< 0.0009	< 0.0009	0.0011	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009; < 0.0009	< 0.0009	< 0.0009	< 0.0009	< 0.0009
Cadmium	< 0.0006	0.0023	< 0.0006	0.0019	< 0.0006	0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006	< 0.0006; 0.007	0.0006	< 0.0006	< 0.0006	< 0.0006
Chromium	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018; < 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018
Copper	0.0039	0.0037	< 0.0023	0.0132	0.0025	0.0026	< 0.0023	0.0023	< 0.0023	0.0025	0.0024	0.0071; < 0.0023	0.0023	< 0.0023	< 0.0023
Lead	< 0.0038	< 0.0038	< 0.0038	< 0.0038	0.0043	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038; < 0.0038	< 0.0038	< 0.0038	< 0.0038	< 0.0038
Mercury	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004; < 0.00004	< 0.00004	< 0.00004	< 0.00004	< 0.00004
Nickel	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028; < 0.0028	< 0.0028	< 0.0028	< 0.0028	< 0.0028
Selenium	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015; < 0.015	< 0.015	< 0.015	< 0.015	< 0.015
Silver	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018; < 0.0018	< 0.0018	< 0.0018	< 0.0018	< 0.0018
Thallium	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009	< 0.009; < 0.009	< 0.009	< 0.009	< 0.009	< 0.009
Zinc	< 0.003	0.009	< 0.003	0.018	< 0.003	0.007	< 0.003	0.007	< 0.003	0.009	0.009	0.0080; 0.006	0.003	0.004	< 0.003

Notes

¹ - Duplicate labeled ESB-16-0-030315

² - Duplicate labeled ESB-17-3-030315

³ - Duplicate labeled ESB-18-0-030315

Bold indicates detections above the
Method Detection Limit

< = not detected at the indicated
reporting limit

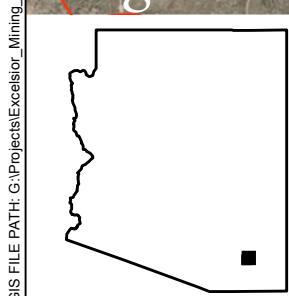
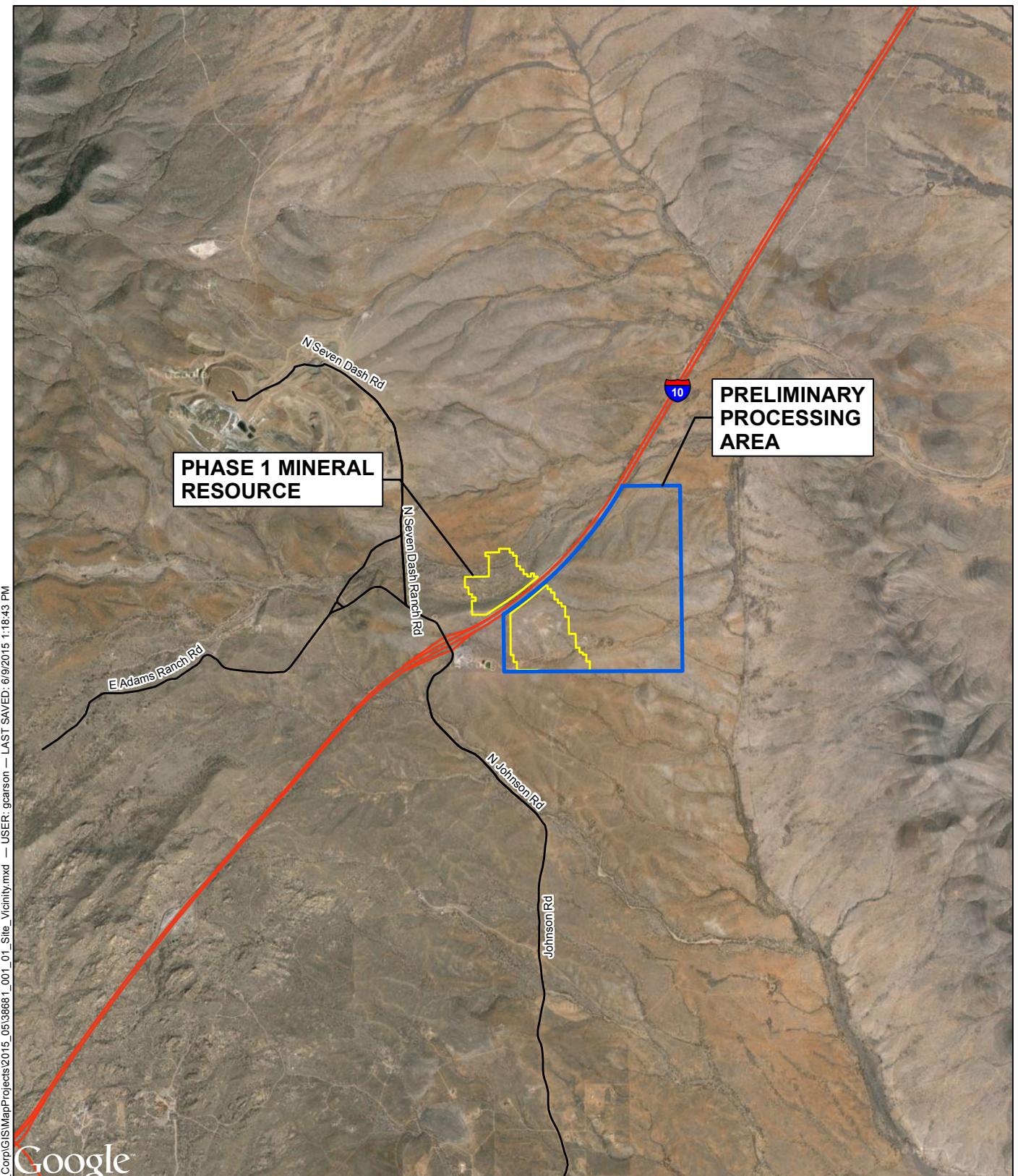
ft bgs = feet below ground surface

mg/L = milligrams per liter

NE = not established

TCLP = Toxicity Characteristic Leaching
Procedure

FIGURES



MAP SOURCE: ESRI
USGS QUAD: DRAGOON, ARIZONA
SITE COORDINATES: 32°5'6.31"N, 110°2'40.47"W

HALEY ALDRICH

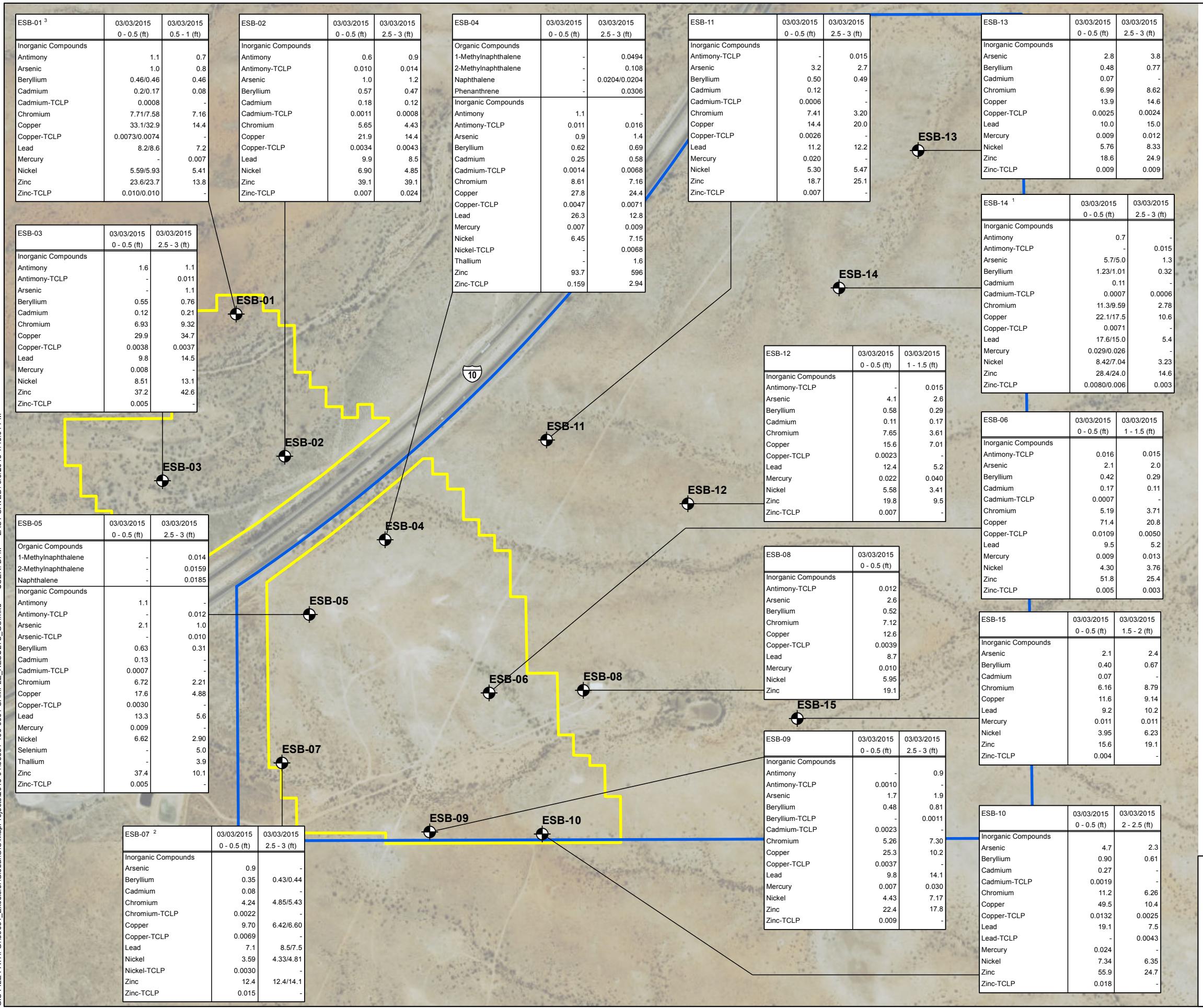
EXCELSIOR MINING CORP.
GUNNISON COPPER PROJECT
COCHISE COUNTY, ARIZONA

SITE VICINITY MAP

Excelsior
MINING CORP.

APPROXIMATE SCALE: 1 IN = 4000 FT
JUNE 2015

FIGURE 1



NOTES

1. ONLY RESULTS THAT ARE ABOVE THE LABORATORY METHOD DETECTION LIMIT ARE SHOWN
2. UNITS IN MILLIGRAMS PER KILOGRAM EXCEPT FOR TCLP RESULT, WHERE UNITS IN MILLIGRAMS PER LITER
3. / = DUPLICATE RESULT
4. AERIAL IMAGERY SOURCE: ESRI

¹ = DUPLICATE LABELED ESB-16-0-030315
² = DUPLICATE LABELED ESB-17-3-030315
³ = DUPLICATE LABELED ESB-18-0-030315

Haley Aldrich EXCELSIOR MINING CORP.
GUNNISON COPPER PROJECT
COCHISE COUNTY, ARIZONA

Excelsior MINING CORP.

BACKGROUND SOIL CHARACTERIZATION ANALYTICAL RESULTS

JUNE 2015

FIGURE 2

APPENDIX A
Laboratory Analytical Reports



www.svl.net

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
ESB-13-0-030315	W5C0127-01	Soil	03-Mar-15 09:10	ACK	06-Mar-2015	
ESB-13-3-030315	W5C0127-02	Soil	03-Mar-15 09:20	ACK	06-Mar-2015	
ESB-14-0-030315	W5C0127-03	Soil	03-Mar-15 09:45	ACK	06-Mar-2015	
ESB-14-3-030315	W5C0127-04	Soil	03-Mar-15 10:00	ACK	06-Mar-2015	
ESB-16-0-030315	W5C0127-05	Soil	03-Mar-15 10:15	ACK	06-Mar-2015	
ESB-11-0-030315	W5C0127-06	Soil	03-Mar-15 10:20	ACK	06-Mar-2015	
ESB-11-3-030315	W5C0127-07	Soil	03-Mar-15 10:30	ACK	06-Mar-2015	
ESB-12-0-030315	W5C0127-08	Soil	03-Mar-15 10:45	ACK	06-Mar-2015	
ESB-12-1.5-030315	W5C0127-09	Soil	03-Mar-15 11:00	ACK	06-Mar-2015	
ESB-15-0-030315	W5C0127-10	Soil	03-Mar-15 11:20	ACK	06-Mar-2015	
ESB-15-2-030315	W5C0127-11	Soil	03-Mar-15 11:35	ACK	06-Mar-2015	
ESB-08-0-030315	W5C0127-12	Soil	03-Mar-15 12:15	ACK	06-Mar-2015	
ESB-10-0-030315	W5C0127-13	Soil	03-Mar-15 13:00	ACK	06-Mar-2015	
ESB-10-2.5-030315	W5C0127-14	Soil	03-Mar-15 13:15	ACK	06-Mar-2015	
ESB-06-0-030315	W5C0127-15	Soil	03-Mar-15 13:40	ACK	06-Mar-2015	
ESB-06-1.5-030315	W5C0127-16	Soil	03-Mar-15 13:55	ACK	06-Mar-2015	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative

04/23/2015mab: Report reissued. SVL data reported to MDL as requested by client.



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-13-0-030315**SVL Sample ID: **W5C0127-01 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 09:10

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	< 0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 14:34	U
EPA 6010B	Arsenic	2.8	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 12:24	
EPA 6010B	Beryllium	0.48	mg/kg dry	0.22	0.06		W511025	MCE	03/11/15 12:24	
EPA 6010B	Cadmium	0.07	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 12:24	J
EPA 6010B	Chromium	6.99	mg/kg dry	0.65	0.17		W511025	MCE	03/11/15 12:24	
EPA 6010B	Copper	13.9	mg/kg dry	1.08	0.30		W511025	MCE	03/11/15 12:24	
EPA 6010B	Lead	10.0	mg/kg dry	0.8	0.4		W511025	MCE	03/11/15 12:24	
EPA 6010B	Nickel	5.76	mg/kg dry	1.08	0.24		W511025	MCE	03/11/15 12:24	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.3	1.6		W511025	MCE	03/11/15 12:24	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.54	0.17		W511025	MCE	03/11/15 12:24	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 12:24	U
EPA 6010B	Zinc	18.6	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 12:24	
EPA 7471A	Mercury	0.009	mg/kg dry	0.036	0.006		W511208	STA	03/13/15 12:40	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	92.4	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	4.93	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	95.3	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Copper	0.0025	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 13:54	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 13:54	U
EPA 6010B	Zinc	0.009	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 13:54	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:30	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



www.svl.net

One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-13-3-030315**SVL Sample ID: **W5C0127-02 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 09:20

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	<0.6	mg/kg dry	2.4	0.6		W511097	AS	03/10/15 14:46	U
EPA 6010B	Arsenic	3.8	mg/kg dry	2.9	1.0		W511025	MCE	03/11/15 12:37	
EPA 6010B	Beryllium	0.77	mg/kg dry	0.24	0.07		W511025	MCE	03/11/15 12:37	
EPA 6010B	Cadmium	<0.08	mg/kg dry	0.24	0.08		W511025	MCE	03/11/15 12:37	U
EPA 6010B	Chromium	8.62	mg/kg dry	0.71	0.19		W511025	MCE	03/11/15 12:37	
EPA 6010B	Copper	14.6	mg/kg dry	1.18	0.33		W511025	MCE	03/11/15 12:37	
EPA 6010B	Lead	15.0	mg/kg dry	0.9	0.5		W511025	MCE	03/11/15 12:37	
EPA 6010B	Nickel	8.33	mg/kg dry	1.18	0.26		W511025	MCE	03/11/15 12:37	
EPA 6010B	Selenium	<1.8	mg/kg dry	4.7	1.8		W511025	MCE	03/11/15 12:37	U
EPA 6010B	Silver	<0.19	mg/kg dry	0.59	0.19		W511025	MCE	03/11/15 12:37	U
EPA 6010B	Thallium	<0.9	mg/kg dry	1.8	0.9		W511025	MCE	03/11/15 12:37	U
EPA 6010B	Zinc	24.9	mg/kg dry	1.2	0.4		W511025	MCE	03/11/15 12:37	
EPA 7471A	Mercury	0.012	mg/kg dry	0.039	0.006		W511208	STA	03/13/15 12:42	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	84.9	%	0.1			W511030	JAA	03/10/15 10:50	
TCLP Extraction Parameters										
EPA 1311	Final pH	4.98	pH Units				W511053	ESB	03/13/15 08:30	
EPA 1311	% Dry Solids	88.2	%				W511053	ESB	03/13/15 08:30	
TCLP Leachates (Metals) Extracted: 03/13/15 08:30										
EPA 6010B	Antimony	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Copper	0.0024	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:11	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:11	U
EPA 6010B	Zinc	0.009	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:11	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:35	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Kellogg ID 83837-0929

(208) 784-1258

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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-14-0-030315**SVL Sample ID: **W5C0127-03 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 09:45

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.3	0.6		W511097	AS	03/10/15 14:50	U
EPA 6010B	Arsenic	5.7	mg/kg dry	2.9	0.9		W511025	MCE	03/11/15 12:40	
EPA 6010B	Beryllium	1.23	mg/kg dry	0.23	0.07		W511025	MCE	03/11/15 12:40	
EPA 6010B	Cadmium	0.11	mg/kg dry	0.23	0.08		W511025	MCE	03/11/15 12:40	J
EPA 6010B	Chromium	11.3	mg/kg dry	0.70	0.19		W511025	MCE	03/11/15 12:40	
EPA 6010B	Copper	22.1	mg/kg dry	1.16	0.32		W511025	MCE	03/11/15 12:40	
EPA 6010B	Lead	17.6	mg/kg dry	0.9	0.5		W511025	MCE	03/11/15 12:40	
EPA 6010B	Nickel	8.42	mg/kg dry	1.16	0.26		W511025	MCE	03/11/15 12:40	
EPA 6010B	Selenium	<1.7	mg/kg dry	4.6	1.7		W511025	MCE	03/11/15 12:40	U
EPA 6010B	Silver	<0.19	mg/kg dry	0.58	0.19		W511025	MCE	03/11/15 12:40	U
EPA 6010B	Thallium	<0.9	mg/kg dry	1.7	0.9		W511025	MCE	03/11/15 12:40	U
EPA 6010B	Zinc	28.4	mg/kg dry	1.2	0.4		W511025	MCE	03/11/15 12:40	
EPA 7471A	Mercury	0.029	mg/kg dry	0.038	0.006		W511208	STA	03/13/15 12:44	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	86.2	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	4.98	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	86.7	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Copper	0.0071	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:22	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:22	U
EPA 6010B	Zinc	0.008	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:22	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:41	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-14-3-030315**SVL Sample ID: **W5C0127-04 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 10:00

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	< 0.6	mg/kg dry	2.4	0.6		W511097	AS	03/10/15 14:55	U
EPA 6010B	Arsenic	1.3	mg/kg dry	3.0	1.0		W511025	MCE	03/11/15 12:43	J
EPA 6010B	Beryllium	0.32	mg/kg dry	0.24	0.07		W511025	MCE	03/11/15 12:43	
EPA 6010B	Cadmium	< 0.08	mg/kg dry	0.24	0.08		W511025	MCE	03/11/15 12:43	U
EPA 6010B	Chromium	2.78	mg/kg dry	0.71	0.19		W511025	MCE	03/11/15 12:43	
EPA 6010B	Copper	10.6	mg/kg dry	1.18	0.33		W511025	MCE	03/11/15 12:43	
EPA 6010B	Lead	5.4	mg/kg dry	0.9	0.5		W511025	MCE	03/11/15 12:43	
EPA 6010B	Nickel	3.23	mg/kg dry	1.18	0.26		W511025	MCE	03/11/15 12:43	
EPA 6010B	Selenium	< 1.8	mg/kg dry	4.7	1.8		W511025	MCE	03/11/15 12:43	U
EPA 6010B	Silver	< 0.19	mg/kg dry	0.59	0.19		W511025	MCE	03/11/15 12:43	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.8	0.9		W511025	MCE	03/11/15 12:43	U
EPA 6010B	Zinc	14.6	mg/kg dry	1.2	0.4		W511025	MCE	03/11/15 12:43	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.039	0.006		W511208	STA	03/13/15 12:46	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	84.7	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	6.58	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	84.6	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	0.015	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:26	J
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Cadmium	0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:26	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Copper	0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:26	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:26	U
EPA 6010B	Zinc	0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:26	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:42	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-16-0-030315**SVL Sample ID: **W5C0127-05 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 10:15

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	0.7	mg/kg dry	2.4	0.7		W511097	AS	03/10/15 14:59	J
EPA 6010B	Arsenic	5.0	mg/kg dry	3.0	1.0		W511025	MCE	03/11/15 12:47	
EPA 6010B	Beryllium	1.01	mg/kg dry	0.24	0.07		W511025	MCE	03/11/15 12:47	
EPA 6010B	Cadmium	< 0.08	mg/kg dry	0.24	0.08		W511025	MCE	03/11/15 12:47	U
EPA 6010B	Chromium	9.59	mg/kg dry	0.72	0.19		W511025	MCE	03/11/15 12:47	
EPA 6010B	Copper	17.5	mg/kg dry	1.20	0.34		W511025	MCE	03/11/15 12:47	
EPA 6010B	Lead	15.0	mg/kg dry	0.9	0.5		W511025	MCE	03/11/15 12:47	
EPA 6010B	Nickel	7.04	mg/kg dry	1.20	0.26		W511025	MCE	03/11/15 12:47	
EPA 6010B	Selenium	< 1.8	mg/kg dry	4.8	1.8		W511025	MCE	03/11/15 12:47	U
EPA 6010B	Silver	< 0.19	mg/kg dry	0.60	0.19		W511025	MCE	03/11/15 12:47	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.8	0.9		W511025	MCE	03/11/15 12:47	U
EPA 6010B	Zinc	24.0	mg/kg dry	1.2	0.4		W511025	MCE	03/11/15 12:47	
EPA 7471A	Mercury	0.026	mg/kg dry	0.040	0.006		W511208	STA	03/13/15 12:47	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	83.4	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	5.24	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	87.6	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Cadmium	0.0007	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:29	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:29	U
EPA 6010B	Zinc	0.006	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:29	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:44	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-11-0-030315**SVL Sample ID: **W5C0127-06 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 10:20

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	<0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 15:03	U
EPA 6010B	Arsenic	3.2	mg/kg dry	2.8	0.9		W511025	MCE	03/11/15 12:57	
EPA 6010B	Beryllium	0.50	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 12:57	
EPA 6010B	Cadmium	0.12	mg/kg dry	0.22	0.08		W511025	MCE	03/11/15 12:57	J
EPA 6010B	Chromium	7.41	mg/kg dry	0.66	0.18		W511025	MCE	03/11/15 12:57	
EPA 6010B	Copper	14.4	mg/kg dry	1.10	0.31		W511025	MCE	03/11/15 12:57	
EPA 6010B	Lead	11.2	mg/kg dry	0.8	0.5		W511025	MCE	03/11/15 12:57	
EPA 6010B	Nickel	5.30	mg/kg dry	1.10	0.24		W511025	MCE	03/11/15 12:57	
EPA 6010B	Selenium	<1.7	mg/kg dry	4.4	1.7		W511025	MCE	03/11/15 12:57	U
EPA 6010B	Silver	<0.18	mg/kg dry	0.55	0.18		W511025	MCE	03/11/15 12:57	U
EPA 6010B	Thallium	<0.8	mg/kg dry	1.7	0.8		W511025	MCE	03/11/15 12:57	U
EPA 6010B	Zinc	18.7	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 12:57	
EPA 7471A	Mercury	0.020	mg/kg dry	0.036	0.006		W511208	STA	03/13/15 12:49	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	90.7	%	0.1			W511030	JAA	03/10/15 10:50	
TCLP Extraction Parameters										
EPA 1311	Final pH	4.98	pH Units				W511053	ESB	03/13/15 08:30	
EPA 1311	% Dry Solids	94.0	%				W511053	ESB	03/13/15 08:30	
TCLP Leachates (Metals) Extracted: 03/13/15 08:30										
EPA 6010B	Antimony	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Cadmium	0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:33	J
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Copper	0.0026	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:33	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:33	U
EPA 6010B	Zinc	0.007	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:33	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:46	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-11-3-030315**SVL Sample ID: **W5C0127-07 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 10:30

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.1	0.6		W511097	AS	03/10/15 15:17	U
EPA 6010B	Arsenic	2.7	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 13:00	
EPA 6010B	Beryllium	0.49	mg/kg dry	0.21	0.06		W511025	MCE	03/11/15 13:00	
EPA 6010B	Cadmium	<0.07	mg/kg dry	0.21	0.07		W511025	MCE	03/11/15 13:00	U
EPA 6010B	Chromium	3.20	mg/kg dry	0.64	0.17		W511025	MCE	03/11/15 13:00	
EPA 6010B	Copper	20.0	mg/kg dry	1.06	0.30		W511025	MCE	03/11/15 13:00	
EPA 6010B	Lead	12.2	mg/kg dry	0.8	0.4		W511025	MCE	03/11/15 13:00	
EPA 6010B	Nickel	5.47	mg/kg dry	1.06	0.23		W511025	MCE	03/11/15 13:00	
EPA 6010B	Selenium	<1.6	mg/kg dry	4.3	1.6		W511025	MCE	03/11/15 13:00	U
EPA 6010B	Silver	<0.17	mg/kg dry	0.53	0.17		W511025	MCE	03/11/15 13:00	U
EPA 6010B	Thallium	<0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 13:00	U
EPA 6010B	Zinc	25.1	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:00	
EPA 7471A	Mercury	<0.006	mg/kg dry	0.035	0.006		W511208	STA	03/13/15 12:51	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	94.0	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	6.59	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	95.8	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	0.015	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:36	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Copper	<0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:36	U
EPA 6010B	Zinc	<0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:36	U
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:48	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-12-0-030315**SVL Sample ID: **W5C0127-08 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 10:45

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	< 0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 15:21	U
EPA 6010B	Arsenic	4.1	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 13:03	
EPA 6010B	Beryllium	0.58	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 13:03	
EPA 6010B	Cadmium	0.11	mg/kg dry	0.22	0.08		W511025	MCE	03/11/15 13:03	J
EPA 6010B	Chromium	7.65	mg/kg dry	0.66	0.18		W511025	MCE	03/11/15 13:03	
EPA 6010B	Copper	15.6	mg/kg dry	1.09	0.31		W511025	MCE	03/11/15 13:03	
EPA 6010B	Lead	12.4	mg/kg dry	0.8	0.4		W511025	MCE	03/11/15 13:03	
EPA 6010B	Nickel	5.58	mg/kg dry	1.09	0.24		W511025	MCE	03/11/15 13:03	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.4	1.6		W511025	MCE	03/11/15 13:03	U
EPA 6010B	Silver	< 0.18	mg/kg dry	0.55	0.18		W511025	MCE	03/11/15 13:03	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 13:03	U
EPA 6010B	Zinc	19.8	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:03	
EPA 7471A	Mercury	0.022	mg/kg dry	0.036	0.006		W511208	STA	03/13/15 12:56	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	91.4	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	4.98	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	92.7	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Copper	0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:40	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:40	U
EPA 6010B	Zinc	0.007	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:40	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:50	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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(208) 784-1258

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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-12-1.5-030315**SVL Sample ID: **W5C0127-09 (Soil)**

Sample Report Page 1 of 1

Sampled: 03-Mar-15 11:00

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.3	0.6		W511097	AS	03/10/15 15:25	U
EPA 6010B	Arsenic	2.6	mg/kg dry	2.9	0.9		W511025	MCE	03/11/15 13:06	J
EPA 6010B	Beryllium	0.29	mg/kg dry	0.23	0.07		W511025	MCE	03/11/15 13:06	
EPA 6010B	Cadmium	0.17	mg/kg dry	0.23	0.08		W511025	MCE	03/11/15 13:06	J
EPA 6010B	Chromium	3.61	mg/kg dry	0.69	0.18		W511025	MCE	03/11/15 13:06	
EPA 6010B	Copper	7.01	mg/kg dry	1.16	0.32		W511025	MCE	03/11/15 13:06	
EPA 6010B	Lead	5.2	mg/kg dry	0.9	0.5		W511025	MCE	03/11/15 13:06	
EPA 6010B	Nickel	3.41	mg/kg dry	1.16	0.25		W511025	MCE	03/11/15 13:06	
EPA 6010B	Selenium	<1.7	mg/kg dry	4.6	1.7		W511025	MCE	03/11/15 13:06	U
EPA 6010B	Silver	<0.18	mg/kg dry	0.58	0.18		W511025	MCE	03/11/15 13:06	U
EPA 6010B	Thallium	<0.9	mg/kg dry	1.7	0.9		W511025	MCE	03/11/15 13:06	U
EPA 6010B	Zinc	9.5	mg/kg dry	1.2	0.4		W511025	MCE	03/11/15 13:06	
EPA 7471A	Mercury	0.040	mg/kg dry	0.038	0.006		W511208	STA	03/13/15 12:58	

Percent Solids / Percent Moisture

Percent Solids	% Solids	86.6	%	0.1		W511030	JAA	03/10/15 10:50	
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TCLP Extraction Parameters

EPA 1311	Final pH	6.67	pH Units			W511053	ESB	03/13/15 08:30	
EPA 1311	% Dry Solids	88.3	%			W511053	ESB	03/13/15 08:30	

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	0.015	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:43	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Copper	<0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:43	U
EPA 6010B	Zinc	<0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:43	U
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:52	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern

Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-15-0-030315**SVL Sample ID: **W5C0127-10 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 11:20

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	< 0.6	mg/kg dry	2.1	0.6		W511097	AS	03/10/15 15:30	U
EPA 6010B	Arsenic	2.1	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 13:10	J
EPA 6010B	Beryllium	0.40	mg/kg dry	0.21	0.06		W511025	MCE	03/11/15 13:10	
EPA 6010B	Cadmium	0.07	mg/kg dry	0.21	0.07		W511025	MCE	03/11/15 13:10	J
EPA 6010B	Chromium	6.16	mg/kg dry	0.64	0.17		W511025	MCE	03/11/15 13:10	
EPA 6010B	Copper	11.6	mg/kg dry	1.07	0.30		W511025	MCE	03/11/15 13:10	
EPA 6010B	Lead	9.2	mg/kg dry	0.8	0.4		W511025	MCE	03/11/15 13:10	
EPA 6010B	Nickel	3.95	mg/kg dry	1.07	0.24		W511025	MCE	03/11/15 13:10	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.3	1.6		W511025	MCE	03/11/15 13:10	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.54	0.17		W511025	MCE	03/11/15 13:10	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 13:10	U
EPA 6010B	Zinc	15.6	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:10	
EPA 7471A	Mercury	0.011	mg/kg dry	0.035	0.006		W511208	STA	03/13/15 13:00	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	93.4	%	0.1			W511030	JAA	03/10/15 10:50	
TCLP Extraction Parameters										
EPA 1311	Final pH	4.99	pH Units				W511053	ESB	03/13/15 08:30	
EPA 1311	% Dry Solids	94.5	%				W511053	ESB	03/13/15 08:30	
TCLP Leachates (Metals) Extracted: 03/13/15 08:30										
EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:47	U
EPA 6010B	Zinc	0.004	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:47	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:53	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-15-2-030315**SVL Sample ID: **W5C0127-11 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 11:35

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 15:34	U
EPA 6010B	Arsenic	2.4	mg/kg dry	2.8	0.9		W511025	MCE	03/11/15 13:13	J
EPA 6010B	Beryllium	0.67	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 13:13	
EPA 6010B	Cadmium	<0.08	mg/kg dry	0.22	0.08		W511025	MCE	03/11/15 13:13	U
EPA 6010B	Chromium	8.79	mg/kg dry	0.67	0.18		W511025	MCE	03/11/15 13:13	
EPA 6010B	Copper	9.14	mg/kg dry	1.11	0.31		W511025	MCE	03/11/15 13:13	
EPA 6010B	Lead	10.2	mg/kg dry	0.8	0.5		W511025	MCE	03/11/15 13:13	
EPA 6010B	Nickel	6.23	mg/kg dry	1.11	0.25		W511025	MCE	03/11/15 13:13	
EPA 6010B	Selenium	<1.7	mg/kg dry	4.5	1.7		W511025	MCE	03/11/15 13:13	U
EPA 6010B	Silver	<0.18	mg/kg dry	0.56	0.18		W511025	MCE	03/11/15 13:13	U
EPA 6010B	Thallium	<0.9	mg/kg dry	1.7	0.9		W511025	MCE	03/11/15 13:13	U
EPA 6010B	Zinc	19.1	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:13	
EPA 7471A	Mercury	0.011	mg/kg dry	0.037	0.006		W511208	STA	03/13/15 13:05	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	89.7	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	5.00	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	91.0	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Copper	<0.0023	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:51	U
EPA 6010B	Zinc	<0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:51	U
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:55	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-08-0-030315**SVL Sample ID: **W5C0127-12 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 12:15

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	<0.7	mg/kg dry	2.4	0.7		W511097	AS	03/10/15 15:38	U
EPA 6010B	Arsenic	2.6	mg/kg dry	3.0	1.0		W511025	MCE	03/11/15 13:16	J
EPA 6010B	Beryllium	0.52	mg/kg dry	0.24	0.07		W511025	MCE	03/11/15 13:16	
EPA 6010B	Cadmium	0.08	mg/kg dry	0.24	0.08		W511025	MCE	03/11/15 13:16	J
EPA 6010B	Chromium	7.12	mg/kg dry	0.73	0.19		W511025	MCE	03/11/15 13:16	
EPA 6010B	Copper	12.6	mg/kg dry	1.21	0.34		W511025	MCE	03/11/15 13:16	
EPA 6010B	Lead	8.7	mg/kg dry	0.9	0.5		W511025	MCE	03/11/15 13:16	
EPA 6010B	Nickel	5.95	mg/kg dry	1.21	0.27		W511025	MCE	03/11/15 13:16	
EPA 6010B	Selenium	<1.8	mg/kg dry	4.9	1.8		W511025	MCE	03/11/15 13:16	U
EPA 6010B	Silver	<0.19	mg/kg dry	0.61	0.19		W511025	MCE	03/11/15 13:16	U
EPA 6010B	Thallium	<0.9	mg/kg dry	1.8	0.9		W511025	MCE	03/11/15 13:16	U
EPA 6010B	Zinc	19.1	mg/kg dry	1.2	0.4		W511025	MCE	03/11/15 13:16	
EPA 7471A	Mercury	0.010	mg/kg dry	0.040	0.006		W511208	STA	03/13/15 13:07	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	82.3	%	0.1			W511030	JAA	03/10/15 10:50	
TCLP Extraction Parameters										
EPA 1311	Final pH	6.48	pH Units				W511053	ESB	03/13/15 08:30	
EPA 1311	% Dry Solids	87.3	%				W511053	ESB	03/13/15 08:30	
TCLP Leachates (Metals) Extracted: 03/13/15 08:30										
EPA 6010B	Antimony	0.012	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:54	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Copper	0.0039	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 14:54	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 14:54	U
EPA 6010B	Zinc	<0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 14:54	U
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 12:57	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-10-0-030315**SVL Sample ID: **W5C0127-13 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 13:00

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	<0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 15:42	U
EPA 6010B	Arsenic	4.7	mg/kg dry	2.8	0.9		W511025	MCE	03/11/15 13:19	
EPA 6010B	Beryllium	0.90	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 13:19	
EPA 6010B	Cadmium	0.27	mg/kg dry	0.22	0.08		W511025	MCE	03/11/15 13:19	
EPA 6010B	Chromium	11.2	mg/kg dry	0.67	0.18		W511025	MCE	03/11/15 13:19	
EPA 6010B	Copper	49.5	mg/kg dry	1.12	0.31		W511025	MCE	03/11/15 13:19	
EPA 6010B	Lead	19.1	mg/kg dry	0.8	0.5		W511025	MCE	03/11/15 13:19	
EPA 6010B	Nickel	7.34	mg/kg dry	1.12	0.25		W511025	MCE	03/11/15 13:19	
EPA 6010B	Selenium	<1.7	mg/kg dry	4.5	1.7		W511025	MCE	03/11/15 13:19	U
EPA 6010B	Silver	<0.18	mg/kg dry	0.56	0.18		W511025	MCE	03/11/15 13:19	U
EPA 6010B	Thallium	<0.9	mg/kg dry	1.7	0.9		W511025	MCE	03/11/15 13:19	U
EPA 6010B	Zinc	55.9	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:19	
EPA 7471A	Mercury	0.024	mg/kg dry	0.037	0.006		W511208	STA	03/13/15 13:09	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	89.6	%	0.1			W511030	JAA	03/10/15 10:50	
TCLP Extraction Parameters										
EPA 1311	Final pH	5.43	pH Units				W511053	ESB	03/13/15 08:30	
EPA 1311	% Dry Solids	91.0	%				W511053	ESB	03/13/15 08:30	
TCLP Leachates (Metals) Extracted: 03/13/15 08:30										
EPA 6010B	Antimony	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Cadmium	0.0019	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 15:06	J
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Copper	0.0132	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 15:06	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:06	U
EPA 6010B	Zinc	0.018	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 15:06	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 13:02	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Kellogg ID 83837-0929

(208) 784-1258

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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-10-2.5-030315**SVL Sample ID: **W5C0127-14 (Soil)**

Sample Report Page 1 of 1

Sampled: 03-Mar-15 13:15

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	< 0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 15:47	U
EPA 6010B	Arsenic	2.3	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 13:23	J
EPA 6010B	Beryllium	0.61	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 13:23	
EPA 6010B	Cadmium	< 0.08	mg/kg dry	0.22	0.08		W511025	MCE	03/11/15 13:23	U
EPA 6010B	Chromium	6.26	mg/kg dry	0.66	0.18		W511025	MCE	03/11/15 13:23	
EPA 6010B	Copper	10.4	mg/kg dry	1.10	0.31		W511025	MCE	03/11/15 13:23	
EPA 6010B	Lead	7.5	mg/kg dry	0.8	0.5		W511025	MCE	03/11/15 13:23	
EPA 6010B	Nickel	6.35	mg/kg dry	1.10	0.24		W511025	MCE	03/11/15 13:23	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.4	1.6		W511025	MCE	03/11/15 13:23	U
EPA 6010B	Silver	< 0.18	mg/kg dry	0.55	0.18		W511025	MCE	03/11/15 13:23	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 13:23	U
EPA 6010B	Zinc	24.7	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:23	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.036	0.006		W511208	STA	03/13/15 13:11	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	91.1	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	5.34	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	93.0	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Copper	0.0025	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 15:09	J
EPA 6010B	Lead	0.0043	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 15:09	J
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:09	U
EPA 6010B	Zinc	< 0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 15:09	U
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 13:04	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director


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Kellogg ID 83837-0929

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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: **W5C0127**

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-06-0-030315**

SVL Sample ID: **W5C0127-15 (Soil)**
Sample Report Page 1 of 1

Sampled: 03-Mar-15 13:40

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.2	0.6		W511097	AS	03/10/15 15:51	U
EPA 6010B	Arsenic	2.1	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 13:26	J
EPA 6010B	Beryllium	0.42	mg/kg dry	0.22	0.07		W511025	MCE	03/11/15 13:26	
EPA 6010B	Cadmium	0.17	mg/kg dry	0.22	0.08		W511025	MCE	03/11/15 13:26	J
EPA 6010B	Chromium	5.19	mg/kg dry	0.65	0.17		W511025	MCE	03/11/15 13:26	
EPA 6010B	Copper	71.4	mg/kg dry	1.09	0.31		W511025	MCE	03/11/15 13:26	
EPA 6010B	Lead	9.5	mg/kg dry	0.8	0.4		W511025	MCE	03/11/15 13:26	
EPA 6010B	Nickel	4.30	mg/kg dry	1.09	0.24		W511025	MCE	03/11/15 13:26	
EPA 6010B	Selenium	<1.6	mg/kg dry	4.4	1.6		W511025	MCE	03/11/15 13:26	U
EPA 6010B	Silver	<0.17	mg/kg dry	0.55	0.17		W511025	MCE	03/11/15 13:26	U
EPA 6010B	Thallium	<0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 13:26	U
EPA 6010B	Zinc	51.8	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:26	
EPA 7471A	Mercury	0.009	mg/kg dry	0.036	0.006		W511208	STA	03/13/15 13:13	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	91.7	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	6.48	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	92.9	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	0.016	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:13	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Cadmium	0.0007	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 15:13	J
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Copper	0.0109	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 15:13	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:13	U
EPA 6010B	Zinc	0.005	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 15:13	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 13:06	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern

Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Client Sample ID: **ESB-06-1.5-030315**SVL Sample ID: **W5C0127-16 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 13:55

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.1	0.6		W511097	AS	03/10/15 15:55	U
EPA 6010B	Arsenic	2.0	mg/kg dry	2.7	0.9		W511025	MCE	03/11/15 13:36	J
EPA 6010B	Beryllium	0.29	mg/kg dry	0.21	0.06		W511025	MCE	03/11/15 13:36	
EPA 6010B	Cadmium	0.11	mg/kg dry	0.21	0.07		W511025	MCE	03/11/15 13:36	J
EPA 6010B	Chromium	3.71	mg/kg dry	0.64	0.17		W511025	MCE	03/11/15 13:36	
EPA 6010B	Copper	20.8	mg/kg dry	1.07	0.30		W511025	MCE	03/11/15 13:36	
EPA 6010B	Lead	5.2	mg/kg dry	0.8	0.4		W511025	MCE	03/11/15 13:36	
EPA 6010B	Nickel	3.76	mg/kg dry	1.07	0.24		W511025	MCE	03/11/15 13:36	
EPA 6010B	Selenium	<1.6	mg/kg dry	4.3	1.6		W511025	MCE	03/11/15 13:36	U
EPA 6010B	Silver	<0.17	mg/kg dry	0.54	0.17		W511025	MCE	03/11/15 13:36	U
EPA 6010B	Thallium	<0.8	mg/kg dry	1.6	0.8		W511025	MCE	03/11/15 13:36	U
EPA 6010B	Zinc	25.4	mg/kg dry	1.1	0.4		W511025	MCE	03/11/15 13:36	
EPA 7471A	Mercury	0.013	mg/kg dry	0.035	0.006		W511208	STA	03/13/15 13:18	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	93.2	%	0.1		W511030	JAA	03/10/15 10:50
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TCLP Extraction Parameters

EPA 1311	Final pH	6.58	pH Units			W511053	ESB	03/13/15 08:30
EPA 1311	% Dry Solids	92.5	%			W511053	ESB	03/13/15 08:30

TCLP Leachates (Metals) Extracted: 03/13/15 08:30

EPA 6010B	Antimony	0.015	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:17	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Cadmium	<0.0006	mg/L Extract	0.0100	0.0006		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Copper	0.0050	mg/L Extract	0.0500	0.0023		W512033	MCE	03/18/15 15:17	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512033	MCE	03/18/15 15:17	U
EPA 6010B	Zinc	0.003	mg/L Extract	0.050	0.003		W512033	MCE	03/18/15 15:17	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511257	STA	03/18/15 13:08	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



Excelsior Mining Corp.
 2999 N. 44th St. #300
 Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods								
EPA 6010B	Antimony	mg/kg	<0.6	0.6	2.0	W511097	10-Mar-15	U
EPA 6010B	Arsenic	mg/kg	<0.8	0.8	2.5	W511025	11-Mar-15	U
EPA 6010B	Beryllium	mg/kg	<0.06	0.06	0.20	W511025	11-Mar-15	U
EPA 6010B	Cadmium	mg/kg	<0.07	0.07	0.20	W511025	11-Mar-15	U
EPA 6010B	Chromium	mg/kg	<0.16	0.16	0.60	W511025	11-Mar-15	U
EPA 6010B	Copper	mg/kg	<0.28	0.28	1.00	W511025	11-Mar-15	U
EPA 6010B	Lead	mg/kg	<0.4	0.4	0.8	W511025	11-Mar-15	U
EPA 6010B	Nickel	mg/kg	<0.22	0.22	1.00	W511025	11-Mar-15	U
EPA 6010B	Selenium	mg/kg	<1.5	1.5	4.0	W511025	11-Mar-15	U
EPA 6010B	Silver	mg/kg	<0.16	0.16	0.50	W511025	11-Mar-15	U
EPA 6010B	Thallium	mg/kg	<0.8	0.8	1.5	W511025	11-Mar-15	U
EPA 6010B	Zinc	mg/kg	<0.3	0.3	1.0	W511025	11-Mar-15	U
EPA 7471A	Mercury	mg/kg	<0.005	0.005	0.033	W511208	13-Mar-15	U

TCLP Extraction Parameters

EPA 1311	Final pH	pH Units	4.93			W511053	13-Mar-15
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Quality Control - EXTRACTION BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
TCLP Leachates (Metals) Extracted: 03/13/15 08:30 Batch: W511053								
EPA 6010B	Arsenic	mg/L Extract	<0.010	0.010	0.050	W512033	18-Mar-15	U
EPA 6010B	Cadmium	mg/L Extract	<0.0006	0.0006	0.0100	W512033	18-Mar-15	U
EPA 6010B	Chromium	mg/L Extract	<0.0018	0.0018	0.0500	W512033	18-Mar-15	U
EPA 6010B	Lead	mg/L Extract	<0.0038	0.0038	0.0500	W512033	18-Mar-15	U
EPA 6010B	Selenium	mg/L Extract	<0.015	0.015	0.050	W512033	18-Mar-15	U
EPA 6010B	Silver	mg/L Extract	<0.0018	0.0018	0.0500	W512033	18-Mar-15	U
EPA 7470A	Mercury	mg/L Extract	<0.00004	0.00004	0.00020	W511257	18-Mar-15	U

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	95.0	100	95.0	80 - 120	W511097	10-Mar-15
EPA 6010B	Arsenic	mg/kg	96.6	100	96.6	80 - 120	W511025	11-Mar-15
EPA 6010B	Beryllium	mg/kg	95.6	100	95.6	80 - 120	W511025	11-Mar-15
EPA 6010B	Cadmium	mg/kg	94.3	100	94.3	80 - 120	W511025	11-Mar-15
EPA 6010B	Chromium	mg/kg	98.9	100	98.9	80 - 120	W511025	11-Mar-15
EPA 6010B	Copper	mg/kg	97.4	100	97.4	80 - 120	W511025	11-Mar-15
EPA 6010B	Lead	mg/kg	96.5	100	96.5	80 - 120	W511025	11-Mar-15
EPA 6010B	Nickel	mg/kg	96.7	100	96.7	80 - 120	W511025	11-Mar-15
EPA 6010B	Selenium	mg/kg	92.2	100	92.2	80 - 120	W511025	11-Mar-15
EPA 6010B	Silver	mg/kg	4.80	5.00	96.1	80 - 120	W511025	11-Mar-15
EPA 6010B	Thallium	mg/kg	97.4	100	97.4	80 - 120	W511025	11-Mar-15
EPA 6010B	Zinc	mg/kg	95.9	100	95.9	80 - 120	W511025	11-Mar-15
EPA 7471A	Mercury	mg/kg	0.848	0.833	102	80 - 120	W511208	13-Mar-15

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0127

Reported: 23-Apr-15 11:09

Quality Control - LABORATORY CONTROL SAMPLE Data				(Continued)					
Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes

TCLP Leachates (Metals)

EPA 6010B	Antimony	mg/L Extract	1.04	1.00	104	80 - 120	W512033	18-Mar-15
EPA 6010B	Arsenic	mg/L Extract	1.11	1.00	111	80 - 120	W512033	18-Mar-15
EPA 6010B	Beryllium	mg/L Extract	1.00	1.00	100	80 - 120	W512033	18-Mar-15
EPA 6010B	Cadmium	mg/L Extract	0.214	0.200	107	80 - 120	W512033	18-Mar-15
EPA 6010B	Chromium	mg/L Extract	1.01	1.00	101	80 - 120	W512033	18-Mar-15
EPA 6010B	Copper	mg/L Extract	0.999	1.00	99.9	80 - 120	W512033	18-Mar-15
EPA 6010B	Lead	mg/L Extract	0.976	1.00	97.6	80 - 120	W512033	18-Mar-15
EPA 6010B	Nickel	mg/L Extract	0.984	1.00	98.4	80 - 120	W512033	18-Mar-15
EPA 6010B	Selenium	mg/L Extract	0.221	0.200	110	80 - 120	W512033	18-Mar-15
EPA 6010B	Silver	mg/L Extract	1.05	1.00	105	80 - 120	W512033	18-Mar-15
EPA 6010B	Thallium	mg/L Extract	0.900	1.00	90.0	80 - 120	W512033	18-Mar-15
EPA 6010B	Zinc	mg/L Extract	1.05	1.00	105	80 - 120	W512033	18-Mar-15
EPA 7470A	Mercury	mg/L Extract	0.00492	0.00500	98.4	80 - 120	W511257	18-Mar-15

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
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Percent Solids / Percent Moisture

Percent Solids	% Solids	%	92.6	92.4	0.2	20	W511030	10-Mar-15
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Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	102	<0.5953025	108	93.9	75 - 125	W511097	10-Mar-15
EPA 6010B	Arsenic	mg/kg	103	2.8	108	92.9	75 - 125	W511025	11-Mar-15
EPA 6010B	Beryllium	mg/kg	102	0.48	108	93.4	75 - 125	W511025	11-Mar-15
EPA 6010B	Cadmium	mg/kg	100	<0.0746834	108	92.6	75 - 125	W511025	11-Mar-15
EPA 6010B	Chromium	mg/kg	114	6.99	108	99.2	75 - 125	W511025	11-Mar-15
EPA 6010B	Copper	mg/kg	122	13.9	108	100	75 - 125	W511025	11-Mar-15
EPA 6010B	Lead	mg/kg	111	10.0	108	93.1	75 - 125	W511025	11-Mar-15
EPA 6010B	Nickel	mg/kg	107	5.76	108	93.7	75 - 125	W511025	11-Mar-15
EPA 6010B	Selenium	mg/kg	97.4	<1.623552	108	90.0	75 - 125	W511025	11-Mar-15
EPA 6010B	Silver	mg/kg	5.26	<0.1731789	5.41	97.1	75 - 125	W511025	11-Mar-15
EPA 6010B	Thallium	mg/kg	96.4	<0.8334235	108	89.1	75 - 125	W511025	11-Mar-15
EPA 6010B	Zinc	mg/kg	126	18.6	108	99.6	75 - 125	W511025	11-Mar-15
EPA 7471A	Mercury	mg/kg	0.416	0.029	0.387	100	75 - 125	W511208	13-Mar-15

TCLP Leachates (Metals)

EPA 6010B	Antimony	mg/L Extract	1.06	<0.0091	1.00	106	75 - 125	W512033	18-Mar-15
EPA 6010B	Arsenic	mg/L Extract	1.11	<0.0096	1.00	111	75 - 125	W512033	18-Mar-15
EPA 6010B	Beryllium	mg/L Extract	1.02	<0.00094	1.00	102	75 - 125	W512033	18-Mar-15
EPA 6010B	Cadmium	mg/L Extract	0.214	<0.00062	0.200	107	75 - 125	W512033	18-Mar-15
EPA 6010B	Chromium	mg/L Extract	1.02	<0.0018	1.00	102	75 - 125	W512033	18-Mar-15
EPA 6010B	Copper	mg/L Extract	1.02	0.0025	1.00	101	75 - 125	W512033	18-Mar-15
EPA 6010B	Lead	mg/L Extract	0.961	<0.0038	1.00	96.1	75 - 125	W512033	18-Mar-15
EPA 6010B	Nickel	mg/L Extract	1.00	<0.0028	1.00	100	75 - 125	W512033	18-Mar-15
EPA 6010B	Selenium	mg/L Extract	0.224	<0.015	0.200	112	75 - 125	W512033	18-Mar-15
EPA 6010B	Silver	mg/L Extract	1.07	<0.0018	1.00	107	75 - 125	W512033	18-Mar-15
EPA 6010B	Thallium	mg/L Extract	0.902	<0.0086	1.00	90.2	75 - 125	W512033	18-Mar-15

SVL holds the following certifications:

AZ:0538, CA:2080, FL(NELAC):E87993, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, WA:C573

Work order Report Page 19 of 21



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015Work Order: **W5C0127**

Reported: 23-Apr-15 11:09

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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TCLP Leachates (Metals) (Continued)

EPA 6010B	Zinc	mg/L Extract	1.08	0.009	1.00	107	75 - 125	W512033	18-Mar-15
EPA 7470A	Mercury	mg/L Extract	0.00106	<0.00004	0.00100	106	70 - 130	W511257	18-Mar-15

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	%R	RPD	RPD Limit	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	105	102	108	96.9	3.1	20	W511097	10-Mar-15
EPA 6010B	Arsenic	mg/kg	104	103	108	93.8	0.9	20	W511025	11-Mar-15
EPA 6010B	Beryllium	mg/kg	103	102	108	94.4	1.0	20	W511025	11-Mar-15
EPA 6010B	Cadmium	mg/kg	100	100	108	92.6	0.0	20	W511025	11-Mar-15
EPA 6010B	Chromium	mg/kg	113	114	108	98.3	0.8	20	W511025	11-Mar-15
EPA 6010B	Copper	mg/kg	122	122	108	100	0.3	20	W511025	11-Mar-15
EPA 6010B	Lead	mg/kg	111	111	108	93.5	0.4	20	W511025	11-Mar-15
EPA 6010B	Nickel	mg/kg	108	107	108	94.2	0.4	20	W511025	11-Mar-15
EPA 6010B	Selenium	mg/kg	97.0	97.4	108	89.6	0.4	20	W511025	11-Mar-15
EPA 6010B	Silver	mg/kg	5.19	5.26	5.41	96.0	1.2	20	W511025	11-Mar-15
EPA 6010B	Thallium	mg/kg	97.3	96.4	108	89.9	0.9	20	W511025	11-Mar-15
EPA 6010B	Zinc	mg/kg	128	126	108	101	1.3	20	W511025	11-Mar-15
EPA 7471A	Mercury	mg/kg	0.406	0.416	0.387	97.5	2.4	20	W511208	13-Mar-15

TCLP Leachates (Metals)

EPA 6010B	Antimony	mg/L Extract	1.05	1.06	1.00	105	0.6	20	W512033	18-Mar-15
EPA 6010B	Arsenic	mg/L Extract	1.11	1.11	1.00	111	0.7	20	W512033	18-Mar-15
EPA 6010B	Beryllium	mg/L Extract	1.03	1.02	1.00	103	0.4	20	W512033	18-Mar-15
EPA 6010B	Cadmium	mg/L Extract	0.217	0.214	0.200	109	1.5	20	W512033	18-Mar-15
EPA 6010B	Chromium	mg/L Extract	1.01	1.02	1.00	101	1.0	20	W512033	18-Mar-15
EPA 6010B	Copper	mg/L Extract	1.01	1.02	1.00	101	0.7	20	W512033	18-Mar-15
EPA 6010B	Lead	mg/L Extract	0.974	0.961	1.00	97.4	1.3	20	W512033	18-Mar-15
EPA 6010B	Nickel	mg/L Extract	0.999	1.00	1.00	99.9	0.5	20	W512033	18-Mar-15
EPA 6010B	Selenium	mg/L Extract	0.223	0.224	0.200	112	0.4	20	W512033	18-Mar-15
EPA 6010B	Silver	mg/L Extract	1.08	1.07	1.00	108	1.1	20	W512033	18-Mar-15
EPA 6010B	Thallium	mg/L Extract	0.895	0.902	1.00	89.5	0.8	20	W512033	18-Mar-15
EPA 6010B	Zinc	mg/L Extract	1.07	1.08	1.00	106	0.8	20	W512033	18-Mar-15
EPA 7470A	Mercury	mg/L Extract	0.00106	0.00106	0.00100	106	0.0	20	W511257	18-Mar-15



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Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: **W5C0127**

Reported: 23-Apr-15 11:09

Notes and Definitions

J	The reported value is less than the Reporting Limit (MRL, CRDL) but greater than or equal to the MDL. Results closer to the MDL have increased relative uncertainty.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
R > 4S	% recovery not applicable, sample concentration more than four times greater than spike level
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



CHAIN OF CUSTODY RECORD

SVL Analytical, Inc. • One Government Gulch • Kellogg, ID 83837 • (208) 784-1258 • FAX: (208) 783-0891

Report to Company:	<u>Haley & Aldrich</u>	Invoice Sent To:	<u>Exceqior</u>
Contact:	<u>Adam Kneeling</u>	Contact:	<u>Rebecca Sawyer</u>
Address:	<u>400 E. 16th Street</u>	Address:	
Phone Number:	<u>ST# 545, Phoenix, AZ 85004</u>	Phone Number:	
FAX Number:	<u>(602) 760-2424</u>	FAX Number:	
E-mail:	<u>akneeling@haleylaldrich.com</u>	PO#:	

Indicate State of sample origination: AZ

Sample ID	Collection	Misc.	Preservative(s)	Matrix Type (From Table I)	No. of Contaminants	Unpreserved	HNO ₃ Filtered	HNO ₃ Unfiltered	HCl	H ₂ SO ₄	NaOH	Other (Specify) Method	13 PP Metals (Total + TCEP)	PAHs 82700	VOCs 82608	Rush Instructions (Days)		
																Comments	Comments	
Please take care to distinguish between: 1 and 1 2 and 2 5 and 5 0 and 0																		
ESB-13-0-030315	3/31/5	0910 AM	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-13-3-030315		0920	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-14-0-030315		0945	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-14-3-030315		1000	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-16-0-030315		1015	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-11-0-030315		1020	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-11-3-030315		1030	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-12-0-030315		1045	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-12-1.5-030315		1100	3 3	X	X	X	X	X	X	X	X	X	X	X	X			
ESB-15-0-030315		1120	3 3	V	X	X	X	X	X	X	X	X	X	X	X			
Received by: <u>John H</u>			Date: <u>3/4/15</u>	Time: <u>1600</u>	Received by: <u>John H</u>			Date: <u>3/4/15</u>	Time: <u>1600</u>	Received by: <u>John H</u>			Date: <u>3/4/15</u>	Time: <u>1600</u>	Date: <u>3/4/15</u>	Time: <u>1600</u>	Date: <u>3/4/15</u>	Time: <u>1600</u>
Relinquished by: <u>John H</u>			Date: <u>3/4/15</u>	Time: <u>1600</u>	Received by: <u>John H</u>			Date: <u>3/4/15</u>	Time: <u>1600</u>	Received by: <u>John H</u>			Date: <u>3/4/15</u>	Time: <u>1600</u>	Date: <u>3/4/15</u>	Time: <u>1600</u>	Date: <u>3/4/15</u>	Time: <u>1600</u>

* Sample Reject: Return Dispose Store (30 Days)

White: LAB COPY Yellow: CUSTOMER COPY

SVL-COC 01/14



CHAIN OF CUSTODY RECORD

SVL Analytical, Inc. • One Government Gulch • Kellogg, ID 83837 • (208) 784-1258 • FAX: (208) 783-0891

Report to Company:	<u>Kellogg & Aldrich</u>	Invoice Sent To:	<u>Excelsior</u>
Contact:	<u>Allen Knobley</u>	Contact:	<u>Rebecca Sawyer</u>
Address:	<u>400 E. 1st - Burn St. STE 555</u>	Address:	
Phone Number:	<u>(602) 760-2424</u>	Phone Number:	
FAX Number:		FAX Number:	
E-mail:	<u>dknabry@kelloggaldrich.com</u>	PO#:	

Indicate State of sample origination: AZ

Sample ID	Collection	Misc.	Preservative(s)	Matrix Type (From Table I)	No. of Contaminants	Collected by: (Init.)	Other (Specify) <u>Metal hand</u>	Rush Instructions (Days)	
								Analyses Required	Comments
Please take care to distinguish between: 1 and I 2 and Z 5 and S Ø and O									
1 <u>ESB-15-2-030315</u>	1/31/15	11:35 AM	X X X	HNO ₃ Unfiltered	1				
2 <u>ESB-08-0-030315</u>		12:15	X X X	HCl	1				
3 <u>ESB-10-0-030315</u>		1:30	X X X	H ₂ SO ₄	1				
4 <u>ESB-10-2.5-030315</u>		1:31:5	X X X	NaOH	1				
5 <u>ESB-06-0-030315</u>		1:34:0	X X X	PAAHs 8270D	1				
6 <u>ESB-06-1.5-030315</u>		1:35:5	X X X	PPM Wals (Total + TSP)	1				
7 <u>ESB-04-0-030315</u>		1:41:0	X X X	LDCs 8260B	1				
8 <u>ESB-04-2.5-030315</u>		1:42:0	X X X		1				
9 <u>ESB-05-0-030315</u>		1:43:0	X X X		1				
10 <u>ESB-05-3-030315</u>		1:44:0	X X X		1				
Reinquished by: <u>Allen Knobley</u> Date: <u>3/16/15</u> Time: <u>10:00</u> Received by: <u>Rebecca Sawyer</u> Date: <u>3/16/15</u> Time: <u>10:00</u>									

* Sample Reject: Return Dispose Store (30 Days)

White: LAB COPY Yellow: CUSTOMER COPY

• on this work order

TEMP on Receipt: <u>21.04, 21.82, 21.48</u>
FOR SVL USE ONLY SVL JOB #
Table 1. - Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil, 4 = Sediment, 5 = Rock, 6 = Rinsate, 7 = Oil
8 = Waste, 9 = Other.

Page 2 of 4

SVL-COC 01/14



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Kellogg ID 83837-0929

(208) 784-1258

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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
ESB-04-0-030315	W5C0128-01	Soil	03-Mar-15 14:10	ACK	06-Mar-2015	
ESB-04-2.5-030315	W5C0128-02	Soil	03-Mar-15 14:20	ACK	06-Mar-2015	
ESB-05-0-030315	W5C0128-03	Soil	03-Mar-15 14:30	ACK	06-Mar-2015	
ESB-05-3-030315	W5C0128-04	Soil	03-Mar-15 14:40	ACK	06-Mar-2015	
ESB-09-0-030315	W5C0128-05	Soil	03-Mar-15 14:50	ACK	06-Mar-2015	
ESB-09-3-030315	W5C0128-06	Soil	03-Mar-15 15:05	ACK	06-Mar-2015	
ESB-07-0-030315	W5C0128-07	Soil	03-Mar-15 15:20	ACK	06-Mar-2015	
ESB-07-3-030315	W5C0128-08	Soil	03-Mar-15 15:30	ACK	06-Mar-2015	
ESB-17-3-030315	W5C0128-09	Soil	03-Mar-15 15:40	ACK	06-Mar-2015	
ESB-03-0-030315	W5C0128-10	Soil	03-Mar-15 15:45	ACK	06-Mar-2015	
ESB-03-3-030315	W5C0128-11	Soil	03-Mar-15 15:55	ACK	06-Mar-2015	
ESB-02-0-030315	W5C0128-12	Soil	03-Mar-15 16:10	ACK	06-Mar-2015	
ESB-02-3-030315	W5C0128-13	Soil	03-Mar-15 16:20	ACK	06-Mar-2015	
ESB-01-0-030315	W5C0128-14	Soil	03-Mar-15 16:40	ACK	06-Mar-2015	
ESB-18-0-030315	W5C0128-15	Soil	03-Mar-15 16:55	ACK	06-Mar-2015	
ESB-01-1-030315	W5C0128-16	Soil	03-Mar-15 17:00	ACK	06-Mar-2015	
TRIP BLANK	W5C0128-17	Water	—		06-Mar-2015	

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL.

Sample preparation is defined by the client as per their Data Quality Objectives.

This report supersedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.

The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

Case Narrative

04/23/2015 Report reissued. SVL data reported to MDL as requested by client.



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Kellogg ID 83837-0929

(208) 784-1258

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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-04-0-030315**SVL Sample ID: **W5C0128-01 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 14:10

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	1.1	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 15:17	J
EPA 6010B	Arsenic	0.9	mg/kg dry	2.8	0.9		W511026	MCE	03/11/15 13:42	J
EPA 6010B	Beryllium	0.62	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 13:42	
EPA 6010B	Cadmium	0.25	mg/kg dry	0.22	0.08		W511026	MCE	03/11/15 13:42	
EPA 6010B	Chromium	8.61	mg/kg dry	0.67	0.18		W511026	MCE	03/11/15 13:42	
EPA 6010B	Copper	27.8	mg/kg dry	1.11	0.31		W511026	MCE	03/11/15 13:42	
EPA 6010B	Lead	26.3	mg/kg dry	0.8	0.5		W511026	MCE	03/11/15 13:42	
EPA 6010B	Nickel	6.45	mg/kg dry	1.11	0.24		W511026	MCE	03/11/15 13:42	
EPA 6010B	Selenium	< 1.7	mg/kg dry	4.4	1.7		W511026	MCE	03/11/15 13:42	U
EPA 6010B	Silver	< 0.18	mg/kg dry	0.56	0.18		W511026	MCE	03/11/15 13:42	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.7	0.9		W511026	MCE	03/11/15 13:42	U
EPA 6010B	Zinc	93.7	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 13:42	
EPA 7471A	Mercury	0.007	mg/kg dry	0.037	0.006		W511255	STA	03/17/15 12:27	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	90.0	%	0.1			W511029	JAA	03/10/15 13:20	
TCLP Extraction Parameters										
EPA 1311	Final pH	5.75	pH Units				W511062	ESB	03/13/15 13:50	
EPA 1311	% Dry Solids	93.2	%				W511062	ESB	03/13/15 13:50	
TCLP Leachates (Metals) Extracted: 03/13/15 13:50										
EPA 6010B	Antimony	0.011	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:12	J
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Cadmium	0.0014	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:12	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Copper	0.0047	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:12	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:12	U
EPA 6010B	Zinc	0.159	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:12	
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:15	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-04-2.5-030315**SVL Sample ID: **W5C0128-02 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 14:20

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	<0.6	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 15:25	U
EPA 6010B	Arsenic	1.4	mg/kg dry	2.8	0.9		W511026	MCE	03/11/15 13:53	J
EPA 6010B	Beryllium	0.69	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 13:53	
EPA 6010B	Cadmium	0.58	mg/kg dry	0.22	0.08		W511026	MCE	03/11/15 13:53	
EPA 6010B	Chromium	7.16	mg/kg dry	0.66	0.18		W511026	MCE	03/11/15 13:53	
EPA 6010B	Copper	24.4	mg/kg dry	1.10	0.31		W511026	MCE	03/11/15 13:53	
EPA 6010B	Lead	12.8	mg/kg dry	0.8	0.5		W511026	MCE	03/11/15 13:53	
EPA 6010B	Nickel	7.15	mg/kg dry	1.10	0.24		W511026	MCE	03/11/15 13:53	
EPA 6010B	Selenium	<1.7	mg/kg dry	4.4	1.7		W511026	MCE	03/11/15 13:53	U
EPA 6010B	Silver	<0.18	mg/kg dry	0.55	0.18		W511026	MCE	03/11/15 13:53	U
EPA 6010B	Thallium	1.6	mg/kg dry	1.7	0.8		W511026	MCE	03/11/15 13:53	J
EPA 6010B	Zinc	596	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 13:53	
EPA 7471A	Mercury	0.009	mg/kg dry	0.036	0.006		W511255	STA	03/17/15 12:28	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	90.9	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	6.39	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	93.4	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	0.016	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:30	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Cadmium	0.0068	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:30	J
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Copper	0.0071	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:30	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Nickel	0.0068	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:30	J
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:30	U
EPA 6010B	Zinc	2.94	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:30	
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:24	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-05-0-030315**SVL Sample ID: **W5C0128-03 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 14:30

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	1.1	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 15:27	J
EPA 6010B	Arsenic	2.1	mg/kg dry	2.8	0.9		W511026	MCE	03/11/15 13:56	J
EPA 6010B	Beryllium	0.63	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 13:56	
EPA 6010B	Cadmium	0.13	mg/kg dry	0.22	0.08		W511026	MCE	03/11/15 13:56	J
EPA 6010B	Chromium	6.72	mg/kg dry	0.67	0.18		W511026	MCE	03/11/15 13:56	
EPA 6010B	Copper	17.6	mg/kg dry	1.12	0.31		W511026	MCE	03/11/15 13:56	
EPA 6010B	Lead	13.3	mg/kg dry	0.8	0.5		W511026	MCE	03/11/15 13:56	
EPA 6010B	Nickel	6.62	mg/kg dry	1.12	0.25		W511026	MCE	03/11/15 13:56	
EPA 6010B	Selenium	< 1.7	mg/kg dry	4.5	1.7		W511026	MCE	03/11/15 13:56	U
EPA 6010B	Silver	< 0.18	mg/kg dry	0.56	0.18		W511026	MCE	03/11/15 13:56	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.7	0.9		W511026	MCE	03/11/15 13:56	U
EPA 6010B	Zinc	37.4	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 13:56	
EPA 7471A	Mercury	0.009	mg/kg dry	0.037	0.006		W511255	STA	03/17/15 12:30	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	89.6	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	5.77	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	92.7	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Cadmium	0.0007	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:42	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Copper	0.0030	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:42	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:42	U
EPA 6010B	Zinc	0.005	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:42	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:26	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-05-3-030315**SVL Sample ID: **W5C0128-04 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 14:40

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	< 0.6	mg/kg dry	2.1	0.6		W511098	MCE	03/10/15 15:30	U
EPA 6010B	Arsenic	1.0	mg/kg dry	2.6	0.9		W511026	MCE	03/11/15 13:58	J
EPA 6010B	Beryllium	0.31	mg/kg dry	0.21	0.06		W511026	MCE	03/11/15 13:58	
EPA 6010B	Cadmium	< 0.07	mg/kg dry	0.21	0.07		W511026	MCE	03/11/15 13:58	U
EPA 6010B	Chromium	2.21	mg/kg dry	0.64	0.17		W511026	MCE	03/11/15 13:58	
EPA 6010B	Copper	4.88	mg/kg dry	1.06	0.30		W511026	MCE	03/11/15 13:58	
EPA 6010B	Lead	5.6	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 13:58	
EPA 6010B	Nickel	2.90	mg/kg dry	1.06	0.23		W511026	MCE	03/11/15 13:58	
EPA 6010B	Selenium	5.0	mg/kg dry	4.2	1.6		W511026	MCE	03/11/15 13:58	
EPA 6010B	Silver	< 0.17	mg/kg dry	0.53	0.17		W511026	MCE	03/11/15 13:58	U
EPA 6010B	Thallium	3.9	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 13:58	
EPA 6010B	Zinc	10.1	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 13:58	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.035	0.006		W511255	STA	03/17/15 12:32	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	94.4	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	6.70	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	96.4	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	0.012	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:46	J
EPA 6010B	Arsenic	0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:46	J
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:46	U
EPA 6010B	Zinc	< 0.003	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:46	U
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:28	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-09-0-030315**SVL Sample ID: **W5C0128-05 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 14:50

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	<0.6	mg/kg dry	2.1	0.6		W511098	MCE	03/10/15 15:33	U
EPA 6010B	Arsenic	1.7	mg/kg dry	2.7	0.9		W511026	MCE	03/11/15 14:01	J
EPA 6010B	Beryllium	0.48	mg/kg dry	0.21	0.06		W511026	MCE	03/11/15 14:01	
EPA 6010B	Cadmium	0.07	mg/kg dry	0.21	0.07		W511026	MCE	03/11/15 14:01	J
EPA 6010B	Chromium	5.26	mg/kg dry	0.64	0.17		W511026	MCE	03/11/15 14:01	
EPA 6010B	Copper	25.3	mg/kg dry	1.07	0.30		W511026	MCE	03/11/15 14:01	
EPA 6010B	Lead	9.8	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:01	
EPA 6010B	Nickel	4.43	mg/kg dry	1.07	0.24		W511026	MCE	03/11/15 14:01	
EPA 6010B	Selenium	<1.6	mg/kg dry	4.3	1.6		W511026	MCE	03/11/15 14:01	U
EPA 6010B	Silver	<0.17	mg/kg dry	0.53	0.17		W511026	MCE	03/11/15 14:01	U
EPA 6010B	Thallium	<0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:01	U
EPA 6010B	Zinc	22.4	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 14:01	
EPA 7471A	Mercury	0.007	mg/kg dry	0.035	0.006		W511255	STA	03/17/15 12:34	J
Percent Solids / Percent Moisture										
Percent Solids	% Solids	93.5	%	0.1			W511029	JAA	03/10/15 13:20	
TCLP Extraction Parameters										
EPA 1311	Final pH	5.80	pH Units				W511062	ESB	03/13/15 13:50	
EPA 1311	% Dry Solids	96.1	%				W511062	ESB	03/13/15 13:50	
TCLP Leachates (Metals) Extracted: 03/13/15 13:50										
EPA 6010B	Antimony	0.010	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:50	J
EPA 6010B	Arsenic	<0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Beryllium	<0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Cadmium	0.0023	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:50	J
EPA 6010B	Chromium	<0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Copper	0.0037	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:50	J
EPA 6010B	Lead	<0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Nickel	<0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Selenium	<0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Silver	<0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Thallium	<0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:50	U
EPA 6010B	Zinc	0.009	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:50	J
EPA 7470A	Mercury	<0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:30	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-09-3-030315**SVL Sample ID: **W5C0128-06 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 15:05

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	0.9	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 15:36	J
EPA 6010B	Arsenic	1.9	mg/kg dry	2.8	0.9		W511026	MCE	03/11/15 14:09	J
EPA 6010B	Beryllium	0.81	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 14:09	
EPA 6010B	Cadmium	< 0.08	mg/kg dry	0.22	0.08		W511026	MCE	03/11/15 14:09	U
EPA 6010B	Chromium	7.30	mg/kg dry	0.67	0.18		W511026	MCE	03/11/15 14:09	
EPA 6010B	Copper	10.2	mg/kg dry	1.11	0.31		W511026	MCE	03/11/15 14:09	
EPA 6010B	Lead	14.1	mg/kg dry	0.8	0.5		W511026	MCE	03/11/15 14:09	
EPA 6010B	Nickel	7.17	mg/kg dry	1.11	0.24		W511026	MCE	03/11/15 14:09	
EPA 6010B	Selenium	< 1.7	mg/kg dry	4.4	1.7		W511026	MCE	03/11/15 14:09	U
EPA 6010B	Silver	< 0.18	mg/kg dry	0.56	0.18		W511026	MCE	03/11/15 14:09	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.7	0.9		W511026	MCE	03/11/15 14:09	U
EPA 6010B	Zinc	17.8	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 14:09	
EPA 7471A	Mercury	0.030	mg/kg dry	0.037	0.006		W511255	STA	03/17/15 12:39	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	90.0	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	4.98	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	92.0	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Beryllium	0.0011	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:54	J
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:54	U
EPA 6010B	Zinc	< 0.003	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:54	U
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:31	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-07-0-030315**SVL Sample ID: **W5C0128-07 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 15:20

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	< 0.6	mg/kg dry	2.1	0.6		W511098	MCE	03/10/15 15:44	U
EPA 6010B	Arsenic	0.9	mg/kg dry	2.6	0.9		W511026	MCE	03/11/15 14:12	J
EPA 6010B	Beryllium	0.35	mg/kg dry	0.21	0.06		W511026	MCE	03/11/15 14:12	
EPA 6010B	Cadmium	0.08	mg/kg dry	0.21	0.07		W511026	MCE	03/11/15 14:12	J
EPA 6010B	Chromium	4.24	mg/kg dry	0.63	0.17		W511026	MCE	03/11/15 14:12	
EPA 6010B	Copper	9.70	mg/kg dry	1.05	0.29		W511026	MCE	03/11/15 14:12	
EPA 6010B	Lead	7.1	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:12	
EPA 6010B	Nickel	3.59	mg/kg dry	1.05	0.23		W511026	MCE	03/11/15 14:12	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.2	1.6		W511026	MCE	03/11/15 14:12	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.52	0.17		W511026	MCE	03/11/15 14:12	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:12	U
EPA 6010B	Zinc	12.4	mg/kg dry	1.0	0.4		W511026	MCE	03/11/15 14:12	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.035	0.006		W511255	STA	03/17/15 12:45	U
Percent Solids / Percent Moisture										
Percent Solids	% Solids	95.3	%	0.1			W511029	JAA	03/10/15 13:20	
TCLP Extraction Parameters										
EPA 1311	Final pH	4.96	pH Units				W511062	ESB	03/13/15 13:50	
EPA 1311	% Dry Solids	97.1	%				W511062	ESB	03/13/15 13:50	
TCLP Leachates (Metals) Extracted: 03/13/15 13:50										
EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Cadmium	0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 16:57	J
EPA 6010B	Chromium	0.0022	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:57	J
EPA 6010B	Copper	0.0069	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 16:57	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Nickel	0.0030	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 16:57	J
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 16:57	U
EPA 6010B	Zinc	0.015	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 16:57	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:33	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-07-3-030315**SVL Sample ID: **W5C0128-08 (Soil)**

Sample Report Page 1 of 1

Sampled: 03-Mar-15 15:30

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	< 0.6	mg/kg dry	2.3	0.6		W511098	MCE	03/10/15 15:47	U
EPA 6010B	Arsenic	< 0.9	mg/kg dry	2.9	0.9		W511026	MCE	03/11/15 14:15	U
EPA 6010B	Beryllium	0.43	mg/kg dry	0.23	0.07		W511026	MCE	03/11/15 14:15	
EPA 6010B	Cadmium	< 0.08	mg/kg dry	0.23	0.08		W511026	MCE	03/11/15 14:15	U
EPA 6010B	Chromium	4.85	mg/kg dry	0.70	0.19		W511026	MCE	03/11/15 14:15	
EPA 6010B	Copper	6.42	mg/kg dry	1.17	0.33		W511026	MCE	03/11/15 14:15	
EPA 6010B	Lead	8.5	mg/kg dry	0.9	0.5		W511026	MCE	03/11/15 14:15	
EPA 6010B	Nickel	4.33	mg/kg dry	1.17	0.26		W511026	MCE	03/11/15 14:15	
EPA 6010B	Selenium	< 1.8	mg/kg dry	4.7	1.8		W511026	MCE	03/11/15 14:15	U
EPA 6010B	Silver	< 0.19	mg/kg dry	0.58	0.19		W511026	MCE	03/11/15 14:15	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.8	0.9		W511026	MCE	03/11/15 14:15	U
EPA 6010B	Zinc	12.4	mg/kg dry	1.2	0.4		W511026	MCE	03/11/15 14:15	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.039	0.006		W511255	STA	03/17/15 12:47	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	85.6	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	4.96	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	86.6	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:01	U
EPA 6010B	Zinc	0.003	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:01	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:35	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-17-3-030315**SVL Sample ID: **W5C0128-09 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 15:40

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	< 0.6	mg/kg dry	2.3	0.6		W511098	MCE	03/10/15 15:49	U
EPA 6010B	Arsenic	< 0.9	mg/kg dry	2.9	0.9		W511026	MCE	03/11/15 14:17	U
EPA 6010B	Beryllium	0.44	mg/kg dry	0.23	0.07		W511026	MCE	03/11/15 14:17	
EPA 6010B	Cadmium	< 0.08	mg/kg dry	0.23	0.08		W511026	MCE	03/11/15 14:17	U
EPA 6010B	Chromium	5.43	mg/kg dry	0.70	0.19		W511026	MCE	03/11/15 14:17	
EPA 6010B	Copper	6.60	mg/kg dry	1.16	0.33		W511026	MCE	03/11/15 14:17	
EPA 6010B	Lead	7.5	mg/kg dry	0.9	0.5		W511026	MCE	03/11/15 14:17	
EPA 6010B	Nickel	4.81	mg/kg dry	1.16	0.26		W511026	MCE	03/11/15 14:17	
EPA 6010B	Selenium	< 1.7	mg/kg dry	4.6	1.7		W511026	MCE	03/11/15 14:17	U
EPA 6010B	Silver	< 0.19	mg/kg dry	0.58	0.19		W511026	MCE	03/11/15 14:17	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.7	0.9		W511026	MCE	03/11/15 14:17	U
EPA 6010B	Zinc	14.1	mg/kg dry	1.2	0.4		W511026	MCE	03/11/15 14:17	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.038	0.006		W511255	STA	03/17/15 12:48	U
Percent Solids / Percent Moisture										
Percent Solids	% Solids	86.1	%	0.1			W511029	JAA	03/10/15 13:20	
TCLP Extraction Parameters										
EPA 1311	Final pH	4.96	pH Units				W511062	ESB	03/13/15 13:50	
EPA 1311	% Dry Solids	87.9	%				W511062	ESB	03/13/15 13:50	
TCLP Leachates (Metals) Extracted: 03/13/15 13:50										
EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:05	U
EPA 6010B	Zinc	< 0.003	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:05	U
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:37	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-03-0-030315**SVL Sample ID: **W5C0128-10 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 15:45

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	1.6	mg/kg dry	2.3	0.6		W511098	MCE	03/10/15 15:52	J
EPA 6010B	Arsenic	< 0.9	mg/kg dry	2.9	0.9		W511026	MCE	03/11/15 14:20	U
EPA 6010B	Beryllium	0.55	mg/kg dry	0.23	0.07		W511026	MCE	03/11/15 14:20	
EPA 6010B	Cadmium	0.12	mg/kg dry	0.23	0.08		W511026	MCE	03/11/15 14:20	J
EPA 6010B	Chromium	6.93	mg/kg dry	0.70	0.19		W511026	MCE	03/11/15 14:20	
EPA 6010B	Copper	29.9	mg/kg dry	1.17	0.33		W511026	MCE	03/11/15 14:20	
EPA 6010B	Lead	9.8	mg/kg dry	0.9	0.5		W511026	MCE	03/11/15 14:20	
EPA 6010B	Nickel	8.51	mg/kg dry	1.17	0.26		W511026	MCE	03/11/15 14:20	
EPA 6010B	Selenium	< 1.7	mg/kg dry	4.7	1.7		W511026	MCE	03/11/15 14:20	U
EPA 6010B	Silver	< 0.19	mg/kg dry	0.58	0.19		W511026	MCE	03/11/15 14:20	U
EPA 6010B	Thallium	< 0.9	mg/kg dry	1.7	0.9		W511026	MCE	03/11/15 14:20	U
EPA 6010B	Zinc	37.2	mg/kg dry	1.2	0.4		W511026	MCE	03/11/15 14:20	
EPA 7471A	Mercury	0.008	mg/kg dry	0.038	0.006		W511255	STA	03/17/15 12:50	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	85.7	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	5.10	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	88.2	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Copper	0.0038	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:09	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:09	U
EPA 6010B	Zinc	0.005	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:09	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:39	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-03-3-030315**SVL Sample ID: **W5C0128-11 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 15:55

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	1.1	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 15:55	J
EPA 6010B	Arsenic	1.1	mg/kg dry	2.7	0.9		W511026	MCE	03/11/15 14:23	J
EPA 6010B	Beryllium	0.76	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 14:23	
EPA 6010B	Cadmium	0.21	mg/kg dry	0.22	0.08		W511026	MCE	03/11/15 14:23	J
EPA 6010B	Chromium	9.32	mg/kg dry	0.65	0.17		W511026	MCE	03/11/15 14:23	
EPA 6010B	Copper	34.7	mg/kg dry	1.09	0.30		W511026	MCE	03/11/15 14:23	
EPA 6010B	Lead	14.5	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:23	
EPA 6010B	Nickel	13.1	mg/kg dry	1.09	0.24		W511026	MCE	03/11/15 14:23	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.4	1.6		W511026	MCE	03/11/15 14:23	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.54	0.17		W511026	MCE	03/11/15 14:23	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:23	U
EPA 6010B	Zinc	42.6	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 14:23	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.036	0.006		W511255	STA	03/17/15 12:52	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	91.9	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	6.30	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	92.3	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	0.011	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:18	J
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Copper	0.0037	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:18	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:18	U
EPA 6010B	Zinc	< 0.003	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:18	U
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:41	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-02-0-030315**SVL Sample ID: **W5C0128-12 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 16:10

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	0.6	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 15:57	J
EPA 6010B	Arsenic	1.0	mg/kg dry	2.7	0.9		W511026	MCE	03/11/15 14:26	J
EPA 6010B	Beryllium	0.57	mg/kg dry	0.22	0.06		W511026	MCE	03/11/15 14:26	
EPA 6010B	Cadmium	0.18	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 14:26	J
EPA 6010B	Chromium	5.65	mg/kg dry	0.65	0.17		W511026	MCE	03/11/15 14:26	
EPA 6010B	Copper	21.9	mg/kg dry	1.08	0.30		W511026	MCE	03/11/15 14:26	
EPA 6010B	Lead	9.9	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:26	
EPA 6010B	Nickel	6.90	mg/kg dry	1.08	0.24		W511026	MCE	03/11/15 14:26	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.3	1.6		W511026	MCE	03/11/15 14:26	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.54	0.17		W511026	MCE	03/11/15 14:26	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:26	U
EPA 6010B	Zinc	39.1	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 14:26	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.036	0.006		W511255	STA	03/17/15 12:54	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	92.7	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	6.09	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	93.7	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	0.010	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:34	J
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Cadmium	0.0011	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:34	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Copper	0.0034	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:34	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:34	U
EPA 6010B	Zinc	0.007	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:34	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:46	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-02-3-030315**SVL Sample ID: **W5C0128-13 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 16:20

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	0.9	mg/kg dry	2.2	0.6		W511098	MCE	03/10/15 16:00	J
EPA 6010B	Arsenic	1.2	mg/kg dry	2.7	0.9		W511026	MCE	03/11/15 14:28	J
EPA 6010B	Beryllium	0.47	mg/kg dry	0.22	0.06		W511026	MCE	03/11/15 14:28	
EPA 6010B	Cadmium	0.12	mg/kg dry	0.22	0.07		W511026	MCE	03/11/15 14:28	J
EPA 6010B	Chromium	4.43	mg/kg dry	0.65	0.17		W511026	MCE	03/11/15 14:28	
EPA 6010B	Copper	14.4	mg/kg dry	1.08	0.30		W511026	MCE	03/11/15 14:28	
EPA 6010B	Lead	8.5	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:28	
EPA 6010B	Nickel	4.85	mg/kg dry	1.08	0.24		W511026	MCE	03/11/15 14:28	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.3	1.6		W511026	MCE	03/11/15 14:28	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.54	0.17		W511026	MCE	03/11/15 14:28	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:28	U
EPA 6010B	Zinc	39.1	mg/kg dry	1.1	0.4		W511026	MCE	03/11/15 14:28	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.036	0.006		W511255	STA	03/17/15 12:56	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	92.8	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	6.36	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	93.4	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	0.014	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:37	J
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Cadmium	0.0008	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:37	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Copper	0.0043	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:37	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:37	U
EPA 6010B	Zinc	0.024	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:37	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:48	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-01-0-030315**SVL Sample ID: **W5C0128-14 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 16:40

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	1.1	mg/kg dry	2.1	0.6		W511098	MCE	03/10/15 16:03	J
EPA 6010B	Arsenic	< 0.8	mg/kg dry	2.6	0.8		W511026	MCE	03/11/15 14:31	U
EPA 6010B	Beryllium	0.46	mg/kg dry	0.21	0.06		W511026	MCE	03/11/15 14:31	
EPA 6010B	Cadmium	0.20	mg/kg dry	0.21	0.07		W511026	MCE	03/11/15 14:31	J
EPA 6010B	Chromium	7.71	mg/kg dry	0.63	0.17		W511026	MCE	03/11/15 14:31	
EPA 6010B	Copper	33.1	mg/kg dry	1.04	0.29		W511026	MCE	03/11/15 14:31	
EPA 6010B	Lead	8.2	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:31	
EPA 6010B	Nickel	5.59	mg/kg dry	1.04	0.23		W511026	MCE	03/11/15 14:31	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.2	1.6		W511026	MCE	03/11/15 14:31	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.52	0.17		W511026	MCE	03/11/15 14:31	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:31	U
EPA 6010B	Zinc	23.6	mg/kg dry	1.0	0.4		W511026	MCE	03/11/15 14:31	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.034	0.006		W511255	STA	03/17/15 12:57	U

Percent Solids / Percent Moisture

Percent Solids	% Solids	96.0	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	5.02	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	96.4	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Copper	0.0073	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:40	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:40	U
EPA 6010B	Zinc	0.010	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:40	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:50	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-18-0-030315**SVL Sample ID: **W5C0128-15 (Soil)****Sample Report Page 1 of 1**

Sampled: 03-Mar-15 16:55

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Metals (Total) by EPA 6000/7000 Methods										
EPA 6010B	Antimony	< 0.6	mg/kg dry	2.1	0.6		W511098	MCE	03/10/15 16:06	U
EPA 6010B	Arsenic	1.0	mg/kg dry	2.6	0.8		W511026	MCE	03/11/15 14:34	J
EPA 6010B	Beryllium	0.46	mg/kg dry	0.21	0.06		W511026	MCE	03/11/15 14:34	
EPA 6010B	Cadmium	0.17	mg/kg dry	0.21	0.07		W511026	MCE	03/11/15 14:34	J
EPA 6010B	Chromium	7.58	mg/kg dry	0.62	0.17		W511026	MCE	03/11/15 14:34	
EPA 6010B	Copper	32.9	mg/kg dry	1.04	0.29		W511026	MCE	03/11/15 14:34	
EPA 6010B	Lead	8.6	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:34	
EPA 6010B	Nickel	5.93	mg/kg dry	1.04	0.23		W511026	MCE	03/11/15 14:34	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.2	1.6		W511026	MCE	03/11/15 14:34	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.52	0.17		W511026	MCE	03/11/15 14:34	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:34	U
EPA 6010B	Zinc	23.7	mg/kg dry	1.0	0.4		W511026	MCE	03/11/15 14:34	
EPA 7471A	Mercury	< 0.006	mg/kg dry	0.034	0.006		W511255	STA	03/17/15 12:59	U
Percent Solids / Percent Moisture										
Percent Solids	% Solids	96.2	%	0.1			W511029	JAA	03/10/15 13:20	
TCLP Extraction Parameters										
EPA 1311	Final pH	5.02	pH Units				W511062	ESB	03/13/15 13:50	
EPA 1311	% Dry Solids	96.7	%				W511062	ESB	03/13/15 13:50	
TCLP Leachates (Metals) Extracted: 03/13/15 13:50										
EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Cadmium	0.0008	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:44	J
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Copper	0.0074	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:44	J
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:44	U
EPA 6010B	Zinc	0.010	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:44	J
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:52	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Client Sample ID: **ESB-01-1-030315**

SVL Sample ID: **W5C0128-16 (Soil)**

Sample Report Page 1 of 1

Sampled: 03-Mar-15 17:00

Received: 06-Mar-15

Sampled By: ACK

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	0.7	mg/kg dry	2.1	0.6		W511098	MCE	03/10/15 16:08	J
EPA 6010B	Arsenic	0.8	mg/kg dry	2.6	0.8		W511026	MCE	03/11/15 14:42	J
EPA 6010B	Beryllium	0.46	mg/kg dry	0.21	0.06		W511026	MCE	03/11/15 14:42	
EPA 6010B	Cadmium	0.08	mg/kg dry	0.21	0.07		W511026	MCE	03/11/15 14:42	J
EPA 6010B	Chromium	7.16	mg/kg dry	0.63	0.17		W511026	MCE	03/11/15 14:42	
EPA 6010B	Copper	14.4	mg/kg dry	1.05	0.29		W511026	MCE	03/11/15 14:42	
EPA 6010B	Lead	7.2	mg/kg dry	0.8	0.4		W511026	MCE	03/11/15 14:42	
EPA 6010B	Nickel	5.41	mg/kg dry	1.05	0.23		W511026	MCE	03/11/15 14:42	
EPA 6010B	Selenium	< 1.6	mg/kg dry	4.2	1.6		W511026	MCE	03/11/15 14:42	U
EPA 6010B	Silver	< 0.17	mg/kg dry	0.52	0.17		W511026	MCE	03/11/15 14:42	U
EPA 6010B	Thallium	< 0.8	mg/kg dry	1.6	0.8		W511026	MCE	03/11/15 14:42	U
EPA 6010B	Zinc	13.8	mg/kg dry	1.0	0.4		W511026	MCE	03/11/15 14:42	
EPA 7471A	Mercury	0.007	mg/kg dry	0.035	0.006		W511255	STA	03/17/15 13:01	J

Percent Solids / Percent Moisture

Percent Solids	% Solids	95.5	%	0.1		W511029	JAA	03/10/15 13:20
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TCLP Extraction Parameters

EPA 1311	Final pH	5.00	pH Units			W511062	ESB	03/13/15 13:50
EPA 1311	% Dry Solids	95.7	%			W511062	ESB	03/13/15 13:50

TCLP Leachates (Metals) Extracted: 03/13/15 13:50

EPA 6010B	Antimony	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Arsenic	< 0.010	mg/L Extract	0.050	0.010		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Beryllium	< 0.0009	mg/L Extract	0.0500	0.0009		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Cadmium	< 0.0006	mg/L Extract	0.0100	0.0006		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Chromium	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Copper	< 0.0023	mg/L Extract	0.0500	0.0023		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Lead	< 0.0038	mg/L Extract	0.0500	0.0038		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Nickel	< 0.0028	mg/L Extract	0.0500	0.0028		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Selenium	< 0.015	mg/L Extract	0.050	0.015		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Silver	< 0.0018	mg/L Extract	0.0500	0.0018		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Thallium	< 0.009	mg/L Extract	0.050	0.009		W512034	MCE	03/18/15 17:48	U
EPA 6010B	Zinc	< 0.003	mg/L Extract	0.050	0.003		W512034	MCE	03/18/15 17:48	U
EPA 7470A	Mercury	< 0.00004	mg/L Extract	0.00020	0.00004		W511258	STA	03/18/15 13:53	U

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015Work Order: **W5C0128**

Reported: 23-Apr-15 11:13

Quality Control - BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	<0.6	0.6	2.0	W511098	10-Mar-15	U
EPA 6010B	Arsenic	mg/kg	<0.8	0.8	2.5	W511026	11-Mar-15	U
EPA 6010B	Beryllium	mg/kg	<0.06	0.06	0.20	W511026	11-Mar-15	U
EPA 6010B	Cadmium	mg/kg	<0.07	0.07	0.20	W511026	11-Mar-15	U
EPA 6010B	Chromium	mg/kg	<0.16	0.16	0.60	W511026	11-Mar-15	U
EPA 6010B	Copper	mg/kg	0.34	0.28	1.00	W511026	11-Mar-15	J
EPA 6010B	Lead	mg/kg	<0.4	0.4	0.8	W511026	11-Mar-15	U
EPA 6010B	Nickel	mg/kg	<0.22	0.22	1.00	W511026	11-Mar-15	U
EPA 6010B	Selenium	mg/kg	<1.5	1.5	4.0	W511026	11-Mar-15	U
EPA 6010B	Silver	mg/kg	<0.16	0.16	0.50	W511026	11-Mar-15	U
EPA 6010B	Thallium	mg/kg	<0.8	0.8	1.5	W511026	11-Mar-15	U
EPA 6010B	Zinc	mg/kg	<0.3	0.3	1.0	W511026	11-Mar-15	U
EPA 7471A	Mercury	mg/kg	<0.005	0.005	0.033	W511255	17-Mar-15	U

TCLP Extraction Parameters

EPA 1311	Final pH	pH Units	4.93			W511062	13-Mar-15	
EPA 1311	% Dry Solids	%	0.00			W511062	13-Mar-15	

Quality Control - EXTRACTION BLANK Data

Method	Analyte	Units	Result	MDL	MRL	Batch ID	Analyzed	Notes
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TCLP Leachates (Metals) Extracted: 03/13/15 13:50 Batch: W511062

EPA 6010B	Arsenic	mg/L Extract	<0.010	0.010	0.050	W512034	18-Mar-15	U
EPA 6010B	Cadmium	mg/L Extract	<0.0006	0.0006	0.0100	W512034	18-Mar-15	U
EPA 6010B	Chromium	mg/L Extract	<0.0018	0.0018	0.0500	W512034	18-Mar-15	U
EPA 6010B	Lead	mg/L Extract	<0.0038	0.0038	0.0500	W512034	18-Mar-15	U
EPA 6010B	Selenium	mg/L Extract	<0.015	0.015	0.050	W512034	18-Mar-15	U
EPA 6010B	Silver	mg/L Extract	<0.0018	0.0018	0.0500	W512034	18-Mar-15	U
EPA 7470A	Mercury	mg/L Extract	<0.00004	0.00004	0.00020	W511258	18-Mar-15	U

Quality Control - LABORATORY CONTROL SAMPLE Data

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	100	100	100	80 - 120	W511098	10-Mar-15	
EPA 6010B	Arsenic	mg/kg	90.6	100	90.6	80 - 120	W511026	11-Mar-15	
EPA 6010B	Beryllium	mg/kg	96.9	100	96.9	80 - 120	W511026	11-Mar-15	
EPA 6010B	Cadmium	mg/kg	90.0	100	90.0	80 - 120	W511026	11-Mar-15	
EPA 6010B	Chromium	mg/kg	95.9	100	95.9	80 - 120	W511026	11-Mar-15	
EPA 6010B	Copper	mg/kg	101	100	101	80 - 120	W511026	11-Mar-15	
EPA 6010B	Lead	mg/kg	92.8	100	92.8	80 - 120	W511026	11-Mar-15	
EPA 6010B	Nickel	mg/kg	94.1	100	94.1	80 - 120	W511026	11-Mar-15	
EPA 6010B	Selenium	mg/kg	89.0	100	89.0	80 - 120	W511026	11-Mar-15	
EPA 6010B	Silver	mg/kg	4.65	5.00	93.1	80 - 120	W511026	11-Mar-15	
EPA 6010B	Thallium	mg/kg	91.4	100	91.4	80 - 120	W511026	11-Mar-15	
EPA 6010B	Zinc	mg/kg	88.4	100	88.4	80 - 120	W511026	11-Mar-15	
EPA 7471A	Mercury	mg/kg	0.867	0.833	104	80 - 120	W511255	17-Mar-15	

SVL holds the following certifications:

AZ:0538, CA:2080, FL(NELAC):E87993, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, WA:C573

Work order Report Page 18 of 21



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2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Quality Control - LABORATORY CONTROL SAMPLE Data (Continued)

Method	Analyte	Units	LCS Result	LCS True	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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TCLP Leachates (Metals)

EPA 6010B	Antimony	mg/L Extract	1.04	1.00	104	80 - 120	W512034	18-Mar-15
EPA 6010B	Arsenic	mg/L Extract	1.10	1.00	110	80 - 120	W512034	18-Mar-15
EPA 6010B	Beryllium	mg/L Extract	1.00	1.00	100	80 - 120	W512034	18-Mar-15
EPA 6010B	Cadmium	mg/L Extract	0.212	0.200	106	80 - 120	W512034	18-Mar-15
EPA 6010B	Chromium	mg/L Extract	1.00	1.00	100	80 - 120	W512034	18-Mar-15
EPA 6010B	Copper	mg/L Extract	1.01	1.00	101	80 - 120	W512034	18-Mar-15
EPA 6010B	Lead	mg/L Extract	0.964	1.00	96.4	80 - 120	W512034	18-Mar-15
EPA 6010B	Nickel	mg/L Extract	0.977	1.00	97.7	80 - 120	W512034	18-Mar-15
EPA 6010B	Selenium	mg/L Extract	0.210	0.200	105	80 - 120	W512034	18-Mar-15
EPA 6010B	Silver	mg/L Extract	1.04	1.00	104	80 - 120	W512034	18-Mar-15
EPA 6010B	Thallium	mg/L Extract	0.891	1.00	89.1	80 - 120	W512034	18-Mar-15
EPA 6010B	Zinc	mg/L Extract	1.04	1.00	104	80 - 120	W512034	18-Mar-15
EPA 7470A	Mercury	mg/L Extract	0.00500	0.00500	100	80 - 120	W511258	18-Mar-15

Quality Control - DUPLICATE Data

Method	Analyte	Units	Duplicate Result	Sample Result	RPD	RPD Limit	Batch ID	Analyzed	Notes
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Percent Solids / Percent Moisture

Percent Solids	% Solids	%	90.1	90.0	0.1	20	W511029	10-Mar-15
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Quality Control - MATRIX SPIKE Data

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	112	1.1	111	99.4	75 - 125	W511098	10-Mar-15
EPA 6010B	Arsenic	mg/kg	101	<0.9003001	111	89.6	75 - 125	W511026	11-Mar-15
EPA 6010B	Beryllium	mg/kg	107	0.62	111	95.6	75 - 125	W511026	11-Mar-15
EPA 6010B	Cadmium	mg/kg	94.6	0.25	111	84.8	75 - 125	W511026	11-Mar-15
EPA 6010B	Chromium	mg/kg	109	8.61	111	90.2	75 - 125	W511026	11-Mar-15
EPA 6010B	Copper	mg/kg	145	27.8	111	105	75 - 125	W511026	11-Mar-15
EPA 6010B	Lead	mg/kg	111	26.3	111	76.3	75 - 125	W511026	11-Mar-15
EPA 6010B	Nickel	mg/kg	105	6.45	111	88.2	75 - 125	W511026	11-Mar-15
EPA 6010B	Selenium	mg/kg	97.9	<1.667222	111	88.1	75 - 125	W511026	11-Mar-15
EPA 6010B	Silver	mg/kg	5.30	<0.1778371	5.56	95.3	75 - 125	W511026	11-Mar-15
EPA 6010B	Thallium	mg/kg	94.8	<0.8558408	111	85.3	75 - 125	W511026	11-Mar-15
EPA 6010B	Zinc	mg/kg	211	93.7	111	106	75 - 125	W511026	11-Mar-15
EPA 7471A	Mercury	mg/kg	0.371	0.007	0.356	102	75 - 125	W511255	17-Mar-15

TCLP Leachates (Metals)

EPA 6010B	Antimony	mg/L Extract	1.08	0.011	1.00	106	75 - 125	W512034	18-Mar-15
EPA 6010B	Arsenic	mg/L Extract	1.10	<0.0096	1.00	110	75 - 125	W512034	18-Mar-15
EPA 6010B	Beryllium	mg/L Extract	1.02	<0.00094	1.00	102	75 - 125	W512034	18-Mar-15
EPA 6010B	Cadmium	mg/L Extract	0.218	0.0014	0.200	108	75 - 125	W512034	18-Mar-15
EPA 6010B	Chromium	mg/L Extract	0.975	<0.0018	1.00	97.5	75 - 125	W512034	18-Mar-15
EPA 6010B	Copper	mg/L Extract	1.03	0.0047	1.00	102	75 - 125	W512034	18-Mar-15
EPA 6010B	Lead	mg/L Extract	0.940	<0.0038	1.00	94.0	75 - 125	W512034	18-Mar-15
EPA 6010B	Nickel	mg/L Extract	0.957	<0.0028	1.00	95.7	75 - 125	W512034	18-Mar-15
EPA 6010B	Selenium	mg/L Extract	0.216	<0.015	0.200	108	75 - 125	W512034	18-Mar-15
EPA 6010B	Silver	mg/L Extract	1.08	<0.0018	1.00	108	75 - 125	W512034	18-Mar-15
EPA 6010B	Thallium	mg/L Extract	0.872	<0.0086	1.00	87.2	75 - 125	W512034	18-Mar-15

SVL holds the following certifications:

AZ:0538, CA:2080, FL(NELAC):E87993, ID:ID00019 & ID00965 (Microbiology), NV:ID000192007A, WA:C573

Work order Report Page 19 of 21



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Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015

Work Order: W5C0128

Reported: 23-Apr-15 11:13

Quality Control - MATRIX SPIKE Data (Continued)

Method	Analyte	Units	Spike Result	Sample Result (R)	Spike Level (S)	% Rec.	Acceptance Limits	Batch ID	Analyzed	Notes
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TCLP Leachates (Metals) (Continued)

EPA 6010B	Zinc	mg/L Extract	1.15	0.159	1.00	99.0	75 - 125	W512034	18-Mar-15
EPA 7470A	Mercury	mg/L Extract	0.00102	<0.00004	0.00100	102	70 - 130	W511258	18-Mar-15

Quality Control - MATRIX SPIKE DUPLICATE Data

Method	Analyte	Units	MSD Result	Spike Result	Spike Level	%R	RPD	RPD Limit	Batch ID	Analyzed	Notes
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Metals (Total) by EPA 6000/7000 Methods

EPA 6010B	Antimony	mg/kg	109	112	111	97.2	2.2	20	W511098	10-Mar-15
EPA 6010B	Arsenic	mg/kg	104	101	111	92.9	3.6	20	W511026	11-Mar-15
EPA 6010B	Beryllium	mg/kg	110	107	111	98.1	2.6	20	W511026	11-Mar-15
EPA 6010B	Cadmium	mg/kg	100	94.6	111	89.7	5.6	20	W511026	11-Mar-15
EPA 6010B	Chromium	mg/kg	113	109	111	93.9	3.7	20	W511026	11-Mar-15
EPA 6010B	Copper	mg/kg	142	145	111	103	1.8	20	W511026	11-Mar-15
EPA 6010B	Lead	mg/kg	114	111	111	78.8	2.5	20	W511026	11-Mar-15
EPA 6010B	Nickel	mg/kg	109	105	111	92.1	4.0	20	W511026	11-Mar-15
EPA 6010B	Selenium	mg/kg	100	97.9	111	90.3	2.5	20	W511026	11-Mar-15
EPA 6010B	Silver	mg/kg	5.52	5.30	5.56	99.3	4.1	20	W511026	11-Mar-15
EPA 6010B	Thallium	mg/kg	98.0	94.8	111	88.1	3.3	20	W511026	11-Mar-15
EPA 6010B	Zinc	mg/kg	178	211	111	76.0	17.0	20	W511026	11-Mar-15
EPA 7471A	Mercury	mg/kg	0.367	0.371	0.356	101	1.0	20	W511255	17-Mar-15

TCLP Leachates (Metals)

EPA 6010B	Antimony	mg/L Extract	1.10	1.08	1.00	109	2.3	20	W512034	18-Mar-15
EPA 6010B	Arsenic	mg/L Extract	1.09	1.10	1.00	109	0.4	20	W512034	18-Mar-15
EPA 6010B	Beryllium	mg/L Extract	1.04	1.02	1.00	104	2.0	20	W512034	18-Mar-15
EPA 6010B	Cadmium	mg/L Extract	0.216	0.218	0.200	107	1.0	20	W512034	18-Mar-15
EPA 6010B	Chromium	mg/L Extract	0.976	0.975	1.00	97.6	0.2	20	W512034	18-Mar-15
EPA 6010B	Copper	mg/L Extract	1.06	1.03	1.00	106	3.4	20	W512034	18-Mar-15
EPA 6010B	Lead	mg/L Extract	0.929	0.940	1.00	92.9	1.2	20	W512034	18-Mar-15
EPA 6010B	Nickel	mg/L Extract	0.970	0.957	1.00	97.0	1.3	20	W512034	18-Mar-15
EPA 6010B	Selenium	mg/L Extract	0.219	0.216	0.200	110	1.4	20	W512034	18-Mar-15
EPA 6010B	Silver	mg/L Extract	1.08	1.08	1.00	108	0.1	20	W512034	18-Mar-15
EPA 6010B	Thallium	mg/L Extract	0.885	0.872	1.00	88.5	1.5	20	W512034	18-Mar-15
EPA 6010B	Zinc	mg/L Extract	1.16	1.15	1.00	99.9	0.7	20	W512034	18-Mar-15
EPA 7470A	Mercury	mg/L Extract	0.00103	0.00102	0.00100	103	1.0	20	W511258	18-Mar-15



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One Government Gulch - PO Box 929

Kellogg ID 83837-0929

(208) 784-1258

Fax (208) 783-0891

Excelsior Mining Corp.
2999 N. 44th St. #300
Phoenix, AZ 85018

Project Name: Gunnison Copper 2015
Work Order: W5C0128
Reported: 23-Apr-15 11:13

Notes and Definitions

J	The reported value is less than the Reporting Limit (MRL, CRDL) but greater than or equal to the MDL. Results closer to the MDL have increased relative uncertainty.
U	Less than MDL.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
R > 4S	% recovery not applicable, sample concentration more than four times greater than spike level
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable



CHAIN OF CUSTODY RECORD

SVL Analytical, Inc. • One Government Gulch • Kellogg, ID 83837 • (208) 784-1258 • FAX: (208) 783-0891

Report to Company:	<u>Holley & Aldrich</u>	Invoice Sent To:	<u>Executive</u>
Contact:	<u>Alecia Knealy</u>	Contact:	<u>Rebecca Sinner</u>
Address:	<u>400 E 1st-Burnet St. Ste 5355</u>	Address:	
Phone Number:	<u>(602) 760-2424</u>	Phone Number:	
FAX Number:	<u></u>	FAX Number:	
E-mail:	<u>aknealy@holleyaldrich.com</u>	PO#:	

Indicate State of sample origination: AZ

Please take care to distinguish between:

1 and I

2 and Z

5 and S

0 and O

Thanks!

Sample ID	Collection	Misc.	Preservative(s)	Analyses Required				Rush Instructions (Days)	Comments
				Date	Time	No. of Contaminants	Matrix Type (From Table I)		
1 <u>ESB-15-2-0303-5</u>	<u>1/31/15</u>	<u>1135</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>NaOH</u>		
2 <u>ESB-08-0-0303-5</u>	<u></u>	<u>1215</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>HCl</u>		
3 <u>ESB-10-0-0303-5</u>	<u></u>	<u>1300</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>H₂SO₄</u>		
4 <u>ESB-10-2.5-0303-5</u>	<u></u>	<u>1315</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>Other (Specify)</u>	<u>PAHs 8270D</u>	
5 <u>ESB-06-0-0303-5</u>	<u></u>	<u>1340</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>NaCl</u>	<u>PPM labs (Total + TDR)</u>	<u>13 PPM labs (Total + TDR)</u>
6 <u>ESB-06-1.5-0303-5</u>	<u></u>	<u>1355</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>HNO₃, Unfiltered</u>		
7 <u>ESB-04-0-0303-5</u>	<u></u>	<u>1410</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>HNO₃, Filtered</u>		
8 <u>ESB-04-2.5-0303-5</u>	<u></u>	<u>1420</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>Impressed</u>		
9 <u>ESB-05-0-0303-5</u>	<u></u>	<u>1430</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>Unfiltered</u>		
10 <u>ESB-05-3-0303-5</u>	<u></u>	<u>1440</u>	<u>X</u>	<u>3</u>	<u>3</u>	<u>3</u>	<u>Acid</u>	<u>13 PPM labs (Total + TDR)</u>	<u>13 PPM labs (Total + TDR)</u>

- * Sample Reject: Return Dispose Store (30 Days)
 Relinquished by: Alecia Knealy Received by: Rebecca Sinner
 Relinquished by: Alecia Knealy Received by: Rebecca Sinner

Page 2 of 4

TEMP on Receipt: 21.0°, 5.8°, 2.4°

SVL JOB #

Table 1. — Matrix Type

1 = Surface Water, 2 = Ground Water
 3 = Soil, 4 = Sediment, 5 = Rock, 6 = Rinseate, 7 = Oil
 8 = Waste, 9 = Other;

Project Name: Organic
 Sampler's Signature: Alecia Knealy

White: LAB COPY Yellow: CUSTOMER COPY

SVL-COC 01/14

on this work order



CHAIN OF CUSTODY RECORD

SVL Analytical, Inc. • One Government Gulch • Kellogg, ID 83837 • (208) 784-1258 • FAX: (208) 783-0891

Report to Company:	<u>Haley & Albach</u>	Invoice Sent To:	<u>Excelsior</u>
Contact:	<u>Jeanne Kuehl</u>	Contact:	<u>Rebecca Sasser</u>
Address:	<u>100 E. 15th Street STE. 505</u>	Address:	
Phone Number:	<u>(602) 260-2424</u>	Phone Number:	
FAX Number:	<u>(602) 260-2424</u>	FAX Number:	
E-mail:	<u>aknach@haleyalbach.com</u>	PO#:	

Indicate State of sample origination: AZ

Sample ID	Collection	Misc.	Preservative(s)	Analyses Required				Comments
				Rush Instructions (Days)	Date:	Time:	Date:	
Please take care to distinguish between: 1 and I 2 and Z 5 and S 0 and O								
1 <u>ESB-09-0-030315</u>	3/3/15	1450	N/A	3	3	X	X	
2 <u>ESB-09-3-030315</u>	1505			3	3	X	X	
3 <u>ESB-07-0-030315</u>	1520			3	3	X	X	
4 <u>ESB-07-3-030315</u>	1530			3	3	X	X	
5 <u>ESB-17-3-030315</u>	1540			3	3	X	X	
6 <u>ESB-03-0-030315</u>	1545			3	3	X	X	
7 <u>ESB-03-3-030315</u>	1555			3	3	X	X	
8 <u>ESB-02-0-030315</u>	1600			3	3	X	X	
9 <u>ESB-02-3-030315</u>	1620			3	3	X	X	
10 <u>ESB-01-0-030315</u>	1640			3	3	X	X	
Relinquished by: <u>AB</u>				Date: <u>3/1/15</u>	Time: <u>16:00</u>	Received by: <u>J. Sasser</u>	Date: <u>3/1/15</u>	Time: <u>16:00</u>
Relinquished by: <u>AB</u>				Date: <u>3/1/15</u>	Time: <u>16:00</u>	Received by: <u>J. Sasser</u>	Date: <u>3/1/15</u>	Time: <u>16:00</u>

* Sample Reject: Return Dispose

White: LAB COPY Yellow: CUSTOMER COPY

Page 3 of 4

SVL COC 01/14

FOR SVL USE ONLY	SVL JOB #
<u>105010128</u>	
TEMP on Receipt: <u>21.0°, 21.8°, 21.4°</u>	

Table I. - Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil, 4 = Sediment, 5 = Rock, 6 = Rinsate, 7 = Oil
8 = Waste, 9 = Other.

Project Name: Gunnison
Sampler's Signature: AB KJ

Rush Instructions (Days)

Comments



CHAIN OF CUSTODY RECORD

SVL Analytical Inc. • One Government Gulch • Kellogg, ID 83837 • (208) 784-1258 • FAX: (208) 783-0891

Page 4 of 4

Report to Company:	<u>Halleg & Hinch</u>	Invoice Sent To:	<u>Eric</u>
Contact:	<u>Sam Knobly</u>	Contact:	<u>Rebecca Souza</u>
Address:	<u>400 E. Van Buren St. STE 555</u>	Address:	
Phone Number:	<u>(602) 700-2424</u>	Phone Number:	
FAX Number:	<u>(602) 85804</u>	FAX Number:	
E-mail:	<u>athenee@hallegandhinch.com</u>	PO#:	

TEMP on Receipt:	<u>70°</u>	Time:	<u>10:40 AM</u>
SVL JOB #		Date:	<u>3/15/15</u>
FOR SVL USE ONLY		Time:	<u>10:40 AM</u>

Table 1. - Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil, 4 = Sediment, 5 = Rock, 6 = Rinseate, 7 = Oil
8 = Waste, 9 = Other.

Project Name: General
Sampler's Signature: John

Analyses Required	Comments											
Other (Specify) <u>Milkweed</u>												
138P Molds Tolu + TCC												
DAs 4270D												
LOCs 8260B												
HNO ₃ , Unfiltered												
HNO ₃ , Filtered												
Unpreserved												
No. of Contaminants												
Matrix Type (From Table I)												
Collected by: (Init.)												
Sample ID	Collection	Misc.	Preservative(s)		HCl		H ₂ SO ₄		NaOH		Other (Specify)	
Date	Time											
1 <u>ESB-18-0-030315</u>	<u>3/15/15</u>	<u>1635</u>	<u>xx</u>		<u>xx</u>		<u>xx</u>		<u>xx</u>		<u>xx</u>	
2 <u>ESB-01-1-030315</u>	<u>3/15/15</u>	<u>1700</u>	<u>xx</u>		<u>xx</u>		<u>xx</u>		<u>xx</u>		<u>xx</u>	
3 <u>Trif Blank</u>	<u>-</u>	<u>-</u>	<u>xx</u>		<u>xx</u>		<u>xx</u>		<u>xx</u>		<u>xx</u>	
4												
5												
6												
7												
8												
9												
10												
Retinished by: <u>John</u>	Date: <u>3/15/15</u>	Time: <u>1630</u>	Received by: <u>John</u>		Date: <u>3/15/15</u>		Time: <u>10:40 AM</u>		Received by: <u>John</u>		Date: <u>3/15/15</u>	
Retinished by: <u>John</u>	Date: <u>3/15/15</u>	Time: <u>1630</u>	Received by: <u>John</u>		Date: <u>3/15/15</u>		Time: <u>10:40 AM</u>		Received by: <u>John</u>		Date: <u>3/15/15</u>	

* Sample Reject: Return Dispose Store (30 Days)

White: LAB COPY Yellow: CUSTOMER COPY

SVL-COC 01/14